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The
CHEMIST AND DRUGGIST
for RETAILER - WHOLESALER - MANUFACTURER

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

No. 3150
VOL. CXXXII

JUNE 22, 1940

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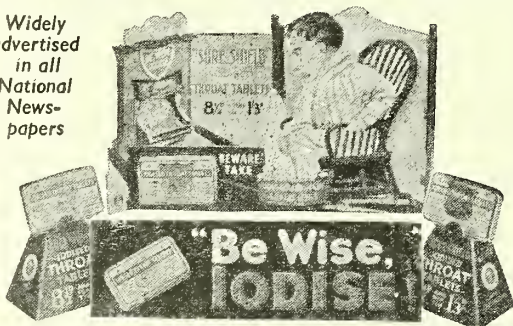
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(to the qualified Retail
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The Perfect Skin Restorative
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This change amounts, in effect, to a simplified grouping of products supplied on bonus terms, and we feel sure that our friends in the trade will welcome the step. Full particulars of the adjustment and a recapitulation of our bonus terms are contained in a leaflet which is shortly to be circulated.

CROOKES' LACTO-CALAMINE

If the present demand for this product is any guide the response we may expect in the summer will be unbounded. We urge the trade, therefore, not to wait for a last-minute rush with its inevitable delays, but to order now and make sure of prompt deliveries.



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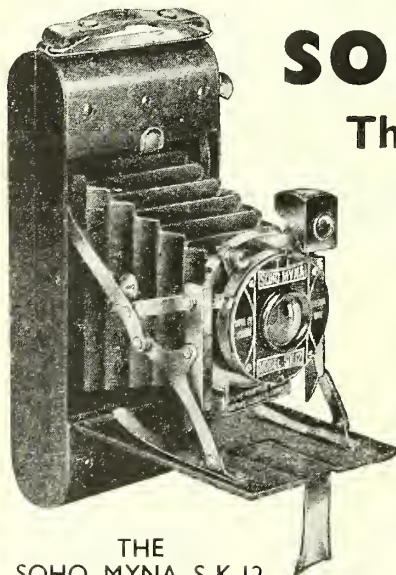
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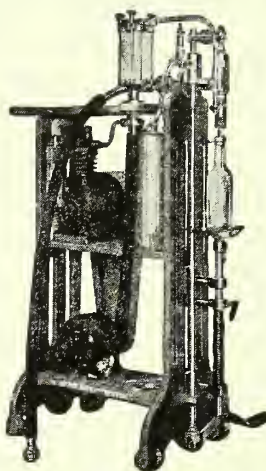
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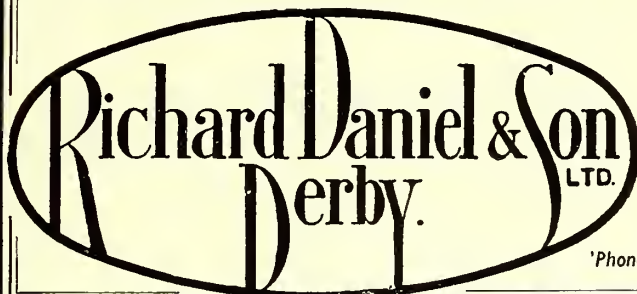
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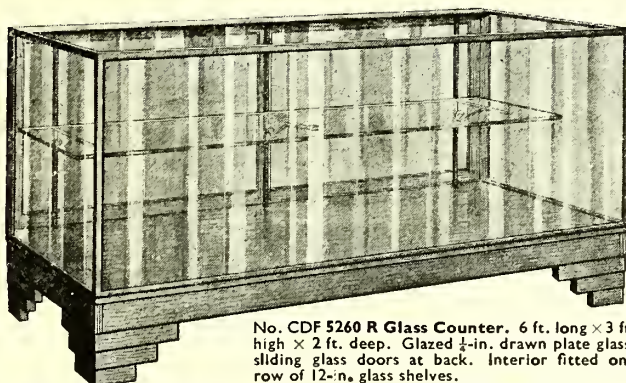
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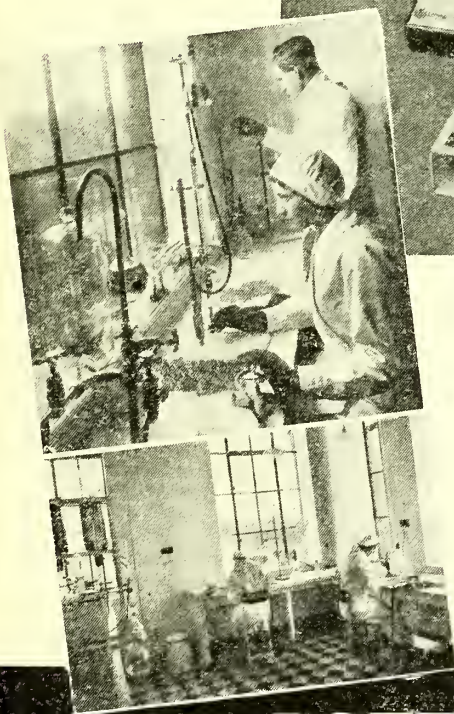
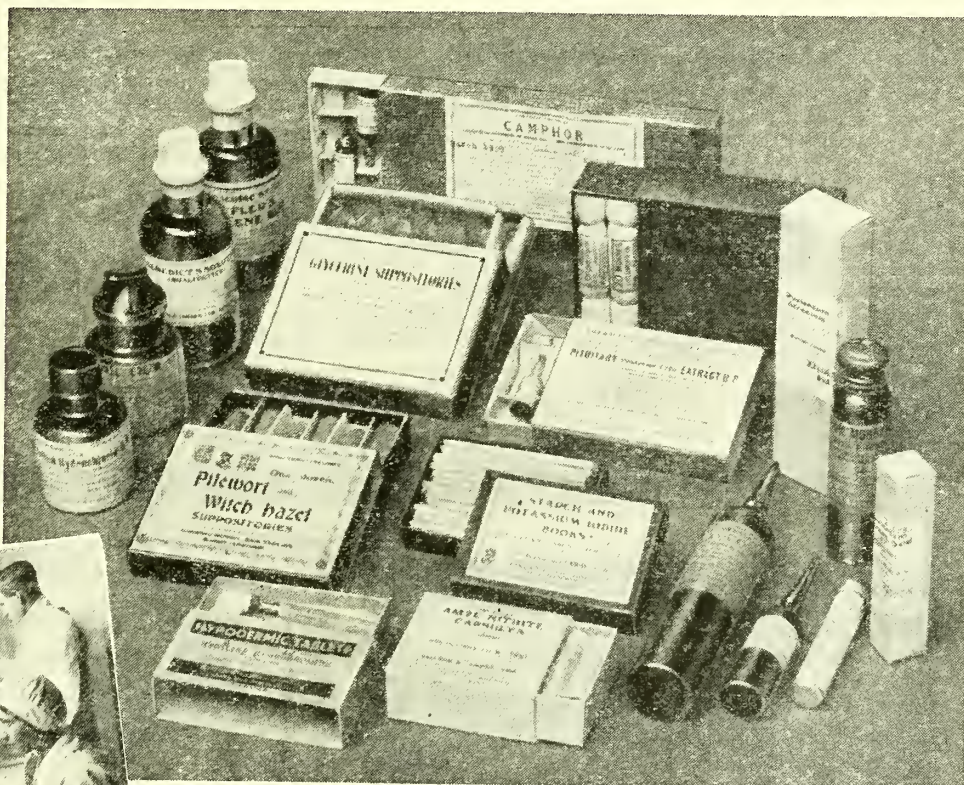
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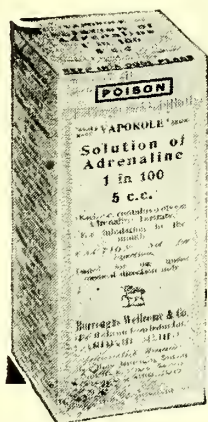
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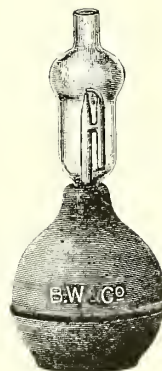
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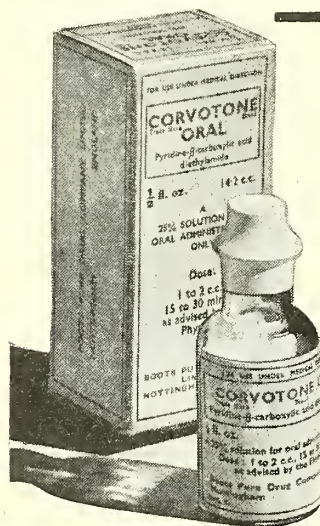
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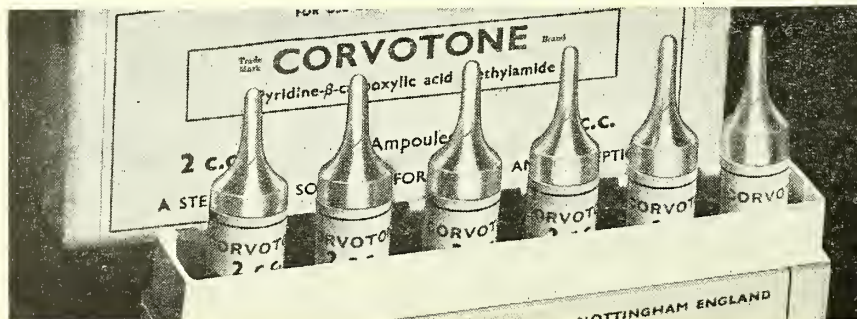
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NEWS OF THE WEEK

Razor Blades Controlled.—The Board of Trade announces that safety-razor blades are controlled articles, and manufacturers and wholesalers must at once apply for registration in accordance with the terms of the Limitation of Supplies (Miscellaneous) Order, 1940.

Export of Goods.—Under the Export of Goods (Control) (No. 15) Order, which came into force on June 10, the first Schedule of the original Order is amended as follows: In Group 13, "A" is to be inserted after "toluol and toluene" and "trichlorethylene."

Essence Export Group.—An export group has been established under the auspices of the British Essence Manufacturers' Association. The executive committee of the Group is announced as follows: Mr. J. M. Bush or Dr. P. C. C. Isherwood (W. J. Bush & Co., Ltd.), Mr. E. J. Boake or Mr. F. W. Lewis (A. Boake, Roberts & Co., Ltd.), Mr. R. W. Stevenson or Mr. V. J. Tilley (Stevenson & Howell, Ltd.), Mr. W. Duckworth or Mr. W. Y. Duckworth (Duckworth & Co. (Essences), Ltd.), and Mr. A. P. L. Blaxter or Mr. S. G. Kendrick (Barnett & Foster, Ltd.). The chairman is Mr. J. M. Bush. Applications for membership of the Group should be made to Mr. H. W. Pillow, Secretary, Bridge House, 181 Queen Victoria Street, E.C.4.

Exports to Mediterranean.—The Board of Trade have made an Export Control Order under which the export of all classes of goods to Bulgaria, Greece, Hungary, Liechtenstein, Rumania, Switzerland, Jugo-Slavia and the Black Sea ports in the U.S.S.R., is prohibited except under Board of Trade licence. This step has been taken as a result of Italy's entry into the war in order to enable the necessary control to be exercised over exports to the Mediterranean and adjacent areas. It is not, however, to be regarded in any sense as a decision to discontinue trade with neutral countries in those areas. A revocation of the outstanding licences for exports to the destinations in question has been issued at the same time; this does not preclude the issue of fresh licences in appropriate circumstances.

Limitation of Home Trade.—In a circular issued by the London Chamber of Commerce, Perfumery and Toilet Preparations Manufacturers' Section and Export Group, it is stated that questions have been raised as to the inclusion or otherwise in Class 16 (perfumery and toilet preparations, with certain exceptions) of certain products, and the following rulings may be noted. Where it appears reasonable and desirable, the Chamber is endeavouring to contest these rulings, but for the time being they must be accepted. *Smelling Salts.*—Must be regarded as included in Class 16; *Eau de Cologne.*—Must be regarded as included in Class 16; *Baby Powder and Baby Cream.*—Must be regarded as included in Class 16; *Eye Lotion.*—Must be regarded as included in Class 16, even though made to a medical formula; *Hair Foods and Tonics.*—Regarded as included in Class 16, even though made to a medical formula; *Solid Dentifrice.*—Regarded as included in Class 16; *Denture Powder, etc.*—The exemption extends only to items specifically stated, i.e. tooth-paste and tooth powder; *Antiseptic Fluids.*—Germicidal and antiseptic preparations sold for general purposes although usable as mouth washes, are not included in Class 16.

Surgical Dressings.—In view of the shortage of paper, it has been necessary for manufacturers of surgical dressings to effect certain economies, which will come into operation on July 1. As a principle, cotton wool will cease to be interleaved from the date mentioned. Manufacturers who have stocks of interleaving paper may continue to supply interleaved wool for some time, but when those stocks are exhausted no further supplies will be available. The Ministry of Health has been advised of the position, and from July 1 the word "interleaved," appearing in the Drug Tariff in respect of absorbent cotton wool, will be deleted. There will be no

further modifications in connexion with the wrapping of N.H.I. dressings for the time being. Cotton wool of all qualities, whether sold previously in gross weight packets or not, will, in future, be made up in net-weight packets only. It will, of course, be some little time before existing stocks of gross-weight packets are cleared. In order to effect further economies in the use of wrapping paper, manufacturers will find themselves compelled to discontinue bulk packings for items such as bandages, small sizes of wools, lints, etc.

Buyers' Association.—At the annual meeting of the Association on June 13 Mr. J. W. Brown was elected *President*. The remaining officers were re-elected *en bloc*.

Prices of Goods Act.—The Board of Trade have made an Order (S.R. and O. 1940, No. 978) making the following addition to the first Schedule to the Prices of Goods Act, 1939:—At the end of the fifth item (Wages and Salaries) . . . "and sums representing reasonable remuneration in respect of services rendered in connexion with the business." The Order, it is stated, is retrospective in effect. The above is an addition to the schedule of items which may be charged in the cost of a business for the purpose of adjusting prices of goods as regulated under the Prices of Goods Act. This concession is intended mainly to meet the case of the small shopkeeper, in business on his own account, whose livelihood depends on his takings. Were he a salaried manager, his salary would appear as part of the costs of the business and would be regarded as an overhead expense for the purpose of determining what increases of prices might be justified as a result of reduced turnover. The effect of the new Order is to provide that so far (and so far only) as the shopkeeper's profits have been in the nature of reasonable remuneration for the work he does, they may be treated as if he had been paid an equivalent sum in salary.

Pharmacy's Finances Discussed at Liverpool.—Liverpool Chemists' Association was addressed on May 30 by Mr. H. W. Wallis (treasurer, Pharmaceutical Society) on "Pharmacy and Finance." Mr. Wallis declared that if they could secure a proper definition of what constituted the medicines that should pass through their hands—in other words, what constituted a chemist's and druggist's business—he would not care much what was lost at the moment in regard to the patent medicines tax. They would gain £1 and lose fourpence. Dealing with the Society's finances, he made specific reference to its publishing activities. One could not, he said, have a deficit unless one had an income and the "Pharmaceutical Journal" by itself had no income. The cost was about £12,000 a year, or approximately 10s. 6d. per member. If the basis of a charge of 21s. a year were accepted for the "Journal," they would be able to claim a profit of £12,000 a year.

Mr. W. E. HUMPHREYS, who presided, opened the discussion. Miss E. DOBIE remarked that when a man wanted to offer his services to the Army he was required to make application to the Pharmaceutical Society, but a woman dispenser must go to the British Red Cross Society. Many of the women who offered their services through the Red Cross organisation had been out of the profession for a long time and were not acquainted with modern methods. Mr. WALLIS replied that all women dispensers were provided by the Red Cross Society and he was afraid that could not be altered. Mr. G. L. CLUBB commented it would be a great tragedy if pharmacists lost the right to manufacture and pack their own preparations unstamped, and asked for an assurance that the Society would not give away that right without considering the subject in all its implications. Mr. WALLIS: I cannot give an assurance on behalf of the Society. Mr. E. CLUBB mentioned a

suggestion that reliable citizens should be appointed disseminators of information in the event of a breakdown in the usual channels of news. Would it not be a good idea for the Pharmaceutical Society to offer the services of its members? MR. WALLIS: "I see no reason why we should not make the offer." MR. L. W. MUSSELL said he had no objection to advertisements of medicinal preparations appearing in the "Journal," but there were certain announcements which could not be commended. MR. G. L. CLUBB: "No one has the right to object to the acceptance of particular advertisements, if he stocks the goods which are advertised." MR. D. RICKE raised the question of the storage of dangerous drugs at first-aid posts, and MR. WALLIS believed the situation had been tightened up. MR. W. J. TRISTRAM proposed a vote of thanks to Mr. Wallis, and MR. H. HUMPHREYS JONES seconded.

IRELAND

Pharmaceutical Society of Ireland.—The latest dates for making application for entry to the July examinations of the Society are:—Registered Druggist examination, Tuesday, June 25; Pharmaceutical Licence examination, July 1; Pharmaceutical Assistant examination, July 8. Applications must be lodged by 11.0 a.m. on the appointed dates.

Ulster Chemist's Golf Association.—The Association held its twenty-second annual competition for the McMullan cup on the links of the Bangor Club recently. Class A (for those with handicap of under 18) was won by Mr. V. D. Skeeles, Newtownards; Class B (18 and over) by Mr. H. H. Cowzer, Belfast. In the final, Mr. Skeeles secured the cup. The visitors' prize in the morning was won by Mr. R. P. Small, Belfast, the runner-up being Mr. J. Kirkpatrick, Belfast, and the afternoon consolation stroke competition was won by Mr. E. C. Steenson, Belfast, the second prize being shared by Messrs. S. H. Forrest, Bangor, and R. H. McCagherty, Belfast. The annual meeting of the Association was held after luncheon, Mr. F. A. McMullan presiding. Mr. Forrest expressed regret at being unable to continue in office as *Secretary*, and proposed Mr. James McClenahan for the position; this was unanimously passed. Mr. J. R. Guiler was elected *Treasurer*, and the following *Committee* was appointed: Messrs. A. T. Hardy, J. A. McRoberts, A. Steede, J. McAuley, W. J. McCutcheon, J. M. Poots, W. J. Rankin, G. H. Simms, S. H. Forrest, J. McCay and N. Hogg. A cordial vote of thanks was passed to Mr. Forrest for his work as secretary. Following the afternoon competition tea was served, and the McMullan cup was handed over by Sir Thomas McMullan. Appreciation was expressed by Mr. H. C. McCracken to Thomas McMullan & Co., Ltd., Belfast, for providing the prizes, and to Mr. Frank McMullan for his hospitality. The Bangor Club was thanked for use of links and clubhouse.

Irish Drug Association.—Mr. P. F. McGrath (president) was in the chair at a meeting of the committee of the I.D.A. held in Dublin on May 27. The committee considered a report from the subcom-

mittee that interviewed representatives of the chemists' branch, Irish Union of Distributive Workers and Clerks. At this interview a demand by the Union to the Association for a 20 per cent. increase in wages had been reduced to one for 10 per cent. The Association's offer of a 3s. 6d. per week increase on all wages was rejected by the Union, and the Conference broke down. A report received from the Mayo Pharmaceutical Association included complaints against a leading wholesaler of delivering syrup laxatives and stomach powders to grocers and hair fixative to barbers by the same delivery vans as those used for deliveries to chemists. The Mayo Association also expressed dissatisfaction with proprietary-medicine manufacturers and distributors who exploited the chemists' prestige yet distributed their lines indiscriminately. The committee felt that the best method of countering such grievances was for members to support approved firms. The president reported on an interview he had had with a certain manufacturer on the question of profit margin, resulting in agreement on a margin of 25 per cent. The agreement between the Association and its secretary (Mr. R. J. Kidney) regarding office accommodation and remuneration was adjusted. A window and counter display period, arranged for the first fortnight in August by another firm, was notified, and members were asked to support the display where possible. The name of Abbott Laboratories, Ltd., Wadsworth Road, Perivale, Middlesex, was added to the approved list of manufacturers.

SCOTLAND

Business Change.—PARKERS STORES, LTD., Bristo Street, Edinburgh, opened a branch at St. Johns Road, Corstorphine, Edinburgh on June 8.

Edinburgh Chemists at Golf.—Edinburgh Chemists' Golf Club played over Prestongrange course, near Edinburgh, recently, when Messrs. W. E. Herd (5) and M. S. Iveson (8) tied for first place with 76, Mr. A. H. Gillies (7), with 78, being third man.

Heriot-Watt College.—The Governors of Heriot-Watt College, Edinburgh, have decided not to proceed at present with the establishment of a separate department of pharmacy under an independent head. Application is being made for continued recognition of the College by the Pharmaceutical Society and University of London.

Distributive Trades' Activities.—At a meeting of the Scottish Distributive Trades Federation, Mr. Weir (representative of the Scottish Pharmaceutical Federation) urged that it would be desirable that some means of preventing undue increases in prices for the limited supply of goods now available should be organised. The matter was left to individual trade groups to consider and report on at a later date. On the subject of early closing it was pointed out that the Order-in-Council gave no powers to close early during the summer, and covered only the black-out period. Despite this, certain towns and trades had maintained a 6 p.m. closing with success, and general adoption of this policy, or of a 6.30 p.m. closing, was supported by many members present.

TOPICAL REFLECTIONS

On Doing Without.—The Board of Trade Order restricting supplies of certain goods for home trade (pp. 427, 431) is, I am glad to notice, framed with some degree of latitude: there will be elasticity within the limits fixed. Thus, the opening of new accounts is not barred, nor is any customer necessarily limited to the prescribed two-thirds of his former value quantum. This is to the good, and it will be the task of the retailer, faced with a shortage that may prove to be inconvenient, to devise ways of dealing with expectant customers. Retailer and customer alike will need at times to adopt the saying attributed to Socrates (on watching a sale): "How many things there are that I do not want!" My view is that chemists in business should not too heartily encourage the public to do without things. That is not their primary mission in life—and after all, this is a civilised country. Thoughtful suggestion of alternative products will seldom fail of its intent when the goods first asked for are not available.

Pharmacists as Dietetic Experts.—The address of Mr. H. Humphreys Jones as chairman of the British Pharmaceutical Conference (p. 432) is a lucid summary of present knowledge of food values and of the use that pharmacists can make of that knowledge. There will be general regret that it was the lot of Mr. Humphreys Jones, one of our most popular and best respected publicists, to be in charge of the Conference in a year when it was not possible to meet on traditional lines: I trust that when peace returns to the world he will have a second innings. The conception of the human body as a species of factory turning out various chemical substances for its own use has gained ground during the past few years, and

seems destined to become even more dominant. The chairman's plea for a more practical outcome of a knowledge of metabolism in the work of the pharmacy should be taken to heart. I know of nothing in the existing laws of this country to prevent quacks setting up as "food consultants," with benefit to their own pockets and corresponding damage to the alimentary tracts of their clients. With a recognition of pharmacists as people qualified to advise on problems of nutrition, there would be a diminished risk of this undesirable development. My limit permits only a general mention of the eight science papers contributed (a very satisfactory number in the circumstances), coupled with congratulation to you on the concise summaries of papers you have been able to include.

Advertising in 1875.—The wording of the "Daily Express" paragraph quoted on p. 435 may in one respect mislead anyone not familiar with the period mentioned. Rooke's "Anti-Lancet" was not a periodical publication but a pamphlet. I remember reading it about the time I began my apprenticeship: its main theme, to the best of my recollection, was a protest against the excessive cupping and bleeding then practised. As a routine habit the practice was then dying out. It is within my knowledge that a man who died in 1875 made it a rule to be bled every spring and autumn but that his son did not follow his example. The Sheridan Knowles mentioned in the paragraph was a popular playwright, born in 1784. Anyone interested in the advertisements of the 'seventies will find examples in the frontispiece of H. Sampson's "History of Advertising" (1874), a reproduction of posters said to be then adorning a wall in one of the London railway termini.

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LEGAL REPORTS

Appeal Dismissed.—The appeal of William Leitch Duncan against a sentence of one month's imprisonment, which had been passed at South Western Police Court, was dismissed, with £7 7s. costs, by the London Sessions Appeals Committee, on June 14 (See *C. & D.*, June 8, p. 414).

Passing-off Action.—Mr. Justice Simonds in the Chancery Division on June 14 granted, by consent, an injunction applied for by Macleans, Ltd., Brentford, to restrain Mr. Edwin R. Cooper, Jermyn Street, London, from passing off or attempting to pass off alkaline powders not of the plaintiffs' manufacture or merchandise as the plaintiffs' alkaline powders.

In particular, the injunction restrained defendant from selling or supplying alkaline powders other than those of the plaintiffs in response to orders for "Maclean Stomach Powder" or "Maclean's Stomach Powder," in which the name "Maclean" or "Maclean's" was used without clearly indicating that the goods were not those of the plaintiffs. Exceptions allowed by the terms of the injunction were the descriptions "Dr. Maclean's Powder," "Dr. Maclean's Stomach Powder," "Professor Maclean's Powder," "Professor Maclean's Stomach Powder," "Stomach Powder Maclean's formula," or "Alkaline Powder Maclean's formula."

War Insurance Offence.—At Cheltenham Police Court, recently, C. & P. James, Ltd., chemists, 29 The Promenade, were summoned under the War Risks Insurance Act, 1939, for carrying on business as a seller of goods without a policy of insurance. Mr. W. S. Bourne prosecuted on behalf of the Board of Trade, and Mr. H. F. Midwinter, who appeared for the defendants, pleaded guilty. Mr. Bourne explained that the Act came into operation on September 3, 1939. It was made compulsory for such a business to insure its stock and they did so in September, a premium being paid on a stock of £3,400. Further premiums were paid afterwards, the last expiring on January 2, 1940. From that date until May 6, when the summons was taken out, no premiums had been paid. Mr. Midwinter informed the Court that in September the company wrote to an insurance company in order to comply with the Act. Afterwards a premium was paid, and there followed further correspondence in which the insurance company stated they would see that the Board of Trade gave consideration to the hardship which the payment of the premium caused the firm. Mr. Midwinter added that the company waited for a decision by the Board of Trade to be conveyed to them by the insurance company. He thought it was a natural thing to do, and added that in his opinion the insurance company had badly let down the firm. While waiting for the insurance company to write to them, they wrongly did not pay further premiums which they should have done, even if it had ruined the firm.

Mr. Bourne said that the amount of premium payable between January 2 and May 6 was between £30 and £35. The penalty for failing to comply with the Act was a maximum fine of £100, and a fine of £50 for every day a policy was not taken out. A fine of £50 and £7 7s. costs was imposed.

Trade Marks Act.—Injunctions restraining Amblins (Chemists), Ltd., Harrow Road, London, W., from infringing three trade marks of pharmaceutical preparations were granted by Mr. Justice Morton, in the Chancery Division of the High Court, London, on June 13.

The plaintiffs were Natural Chemicals, Ltd., Clipstone Street, W., Veno Drug Co., Ltd., Pall Mall, W., and Irvings Yeast-Vite, Ltd., Pall Mall, W., owners, respectively, of the trade marks, Phyllosan, Cassells Tablets and Yeast-Vite. His lordship declined to grant plaintiffs injunctions restraining defendants from passing off their goods as those of plaintiffs' manufacture.

The plaintiffs claimed that Messrs. Amblins issued pamphlets and posters advertising their preparations by reference to the well-advertised remedies of the plaintiffs, stating they were the same preparations sold at about one-third the price of the original.

The defendants did not contest the granting of injunctions restraining infringement of the trade marks, or from using the trade marks or any mark so nearly resembling them as to be likely to cause confusion. They resisted the granting of injunctions restraining them from using plaintiffs' trade marks in advertisements for the purpose of exploiting the sale of preparations not of plaintiffs' manufacture, and from "passing off," which they denied.

Mr. Justice Morton, giving judgment, said that it was plain that what, in effect, Messrs. Amblins had been saying to the public was: "We can sell you the same prescription as these much advertised remedies at a much smaller cost." His lordship had not to determine whether that statement was true or false. Whether it was true or false it was clearly likely to damage the plaintiffs' trade and to benefit the defendants' trade. It seemed that plainly the defendants were getting the benefit to some extent—perhaps to a great

extent—of the reputation which had been built up by the plaintiffs' advertisements. If, on the other hand, the statements in the defendants' pamphlets and posters were true—as to which his lordship had no knowledge—it could clearly not be said to be detrimental to the public that that statement was made.

The first issue was as to whether the use of the posters and pamphlets was an infringement of trade marks such as to entitle the plaintiffs to injunctions. It was admitted that it was not an infringement prior to the passing of the Trade Marks Act, 1938. The Court of Appeal had held, in a case of the proprietors of "Bismag" against the present defendants, that the publication of these documents was an infringement on the true construction of the Act. That decision his lordship, of course, followed. The plaintiffs were entitled to injunctions restraining infringement, and from using trade marks or marks so nearly resembling them as to cause confusion.

With regard to an injunction claimed restraining the defendants from using the plaintiffs' trade marks in any advertisement exploiting the sale of any goods not of the defendants' manufacture, it had been argued on behalf of Messrs. Amblins that the wording did not follow that of the relevant section of the 1938 Act. The injunction sought referred either to an infringement under the section, or it did not; if it did, it was completely covered by the injunctions granted, and if not, it was not justified.

His lordship entirely agreed with that argument, and for those reasons refused to grant this injunction. The judge found that on certain invoices to customers the plaintiffs' trade marks had been used. He was satisfied that it was by mistake, but it was an infringement. These instances were covered by injunctions granted. There would be an order for an inquiry as to damages caused by infringement of trade mark.

With regard to the allegations of passing off, Mr. Justice Morton said he was satisfied that it was not at all the course of Messrs. Amblins' business to try and sell their preparations under the names of the plaintiffs' remedies. On the contrary, they desired to impress on the public that they could buy the same product as the much advertised one at a considerably cheaper cost. Evidence had been given by one witness, who, admittedly, was sent to give a "trap" order. Though he asked for the plaintiffs' goods and was given preparations of the defendants' manufacture, his lordship was satisfied that instructions had been given to prevent "passing off." He regarded this as an isolated instance, and in all probability, a mistake. No injunctions would be granted under this head.

On a further issue as to whether the use of the description Yeast Life by defendants was an infringement of the trade mark, Yeast-Vite his Lordship said that Mr. Justice Simonds had refused to grant an interlocutory injunction. Counsel for the plaintiffs had reserved his right to contest the point before a higher Court; without expressing any view, his lordship declined to grant an injunction.

PARLIAMENTARY NEWS

Food Supplies for Invalids.—The Parliamentary Secretary to the Ministry of Food stated on June 6 that the Food Rationing (Special Diets) Advisory Committee of the Medical Research Council had recommended that extra sugar rations should be allowed sufferers from spontaneous hypoglycæmia, and extra meat rations, in exchange for the butter ration, to those suffering from steatorrhœa (coeliac disease and tropical sprue).

Prices of Drugs and Medicines.—Mr. Sorensen asked the President of the Board of Trade on June 11 the approximate increase in prices of drugs and medicines since the beginning of the war, and whether he was satisfied that effective measures had been taken to prevent undue and unnecessary increases. Sir Andrew Duncan: I am informed that the extent to which the prices of various drugs and medicines have increased since the outbreak of war varies considerably. Drugs and medicines, other than dispensed medicines, have been brought under the Prices of Goods Act.

Advertisements for Anti-gas Preparations.—Mr. Keeling asked the Home Secretary on June 13 whether he had seen the advertisements of Benin products, claiming that they were a protection against mustard and other liquid gases if applied beforehand and an antidote if applied after contamination, and whether these products had been examined with a view to prohibiting advertisements making false claims? Sir J. Anderson: The matter has been receiving the careful attention of my Department. A sample of the cream was tested by my expert advisers and it was found that the claims made for it could not be substantiated. . . . Tests show that the product is not so good as bleach paste for treating the human skin after contamination with liquid mustard gas.

POISONING STATISTICS

THE Registrar-General's annual statistical review for England and Wales for 1938 has recently been issued, so far as Part I of the Tables (Medical: Stationery Office, 6s.) is concerned. The following table shows the general statistics compared with those for 1937:—

	1937	1938
Population (estimated)	41,031,000	41,215,000
Birth rate (crude)	14.9 per 1,000	15.1 per 1,000
Deaths	509,574	478,829
Death rate (crude)	12.4 per 1,000	11.6 per 1,000
	Accident 91	Accident 90
	Suicide .. 578	Suicide .. 591
Poison deaths (corrected figures) ..	Total 669	681
Ratio of poison deaths to total deaths ..	1 in 762	1 in 703

The figures given in the report have been modified, in accordance with our usual practice, by the deletion of deaths occasioned by coal gas, insect stings, poisonous plants, the administration of anaesthetics, and other causes of little importance to C. & D. readers. To illustrate the proportion of accidental deaths to total poison deaths in past years, part of a table previously given is reprinted:—

1856 ..	Accidental poisonings 317	Total poisonings 457
1886 ..	" 228	" 507
1913 ..	" 211	" 723
1921 ..	" 122	" 479
1924 ..	" 97	" 501
1930 ..	" 134	" 849
1934 ..	" 85	" 832
1935 ..	" 87	" 734
1936 ..	" 92	" 650
1937 ..	" 91	" 669

The following are relevant details extracted from the tables in the review, together with those of the two preceding years:—

Name of Poison	1936		1937		1938	
	Negligence and Accident	Suicide	Negligence and Accident	Suicide	Negligence and Accident	Suicide
A.B.C. liniment	—	7	—	—	3	5
Acetic acid	2	1	2	2	—	2
Aconite	—	—	—	1	—	—
Aconite and belladonna	—	—	4	—	—	—
Adalin	—	—	—	1	—	—
Allonal	1	2	—	—	—	1
Ammonia	6	31	3	18	3	22
Antimony chloride	—	1	—	—	—	1
Arsenic and preparations	1	10	—	6	2	7
Aspirin	8	17	10	41	8	43
Atophan	—	—	1	—	—	—
Barbitone and salts	3	7	6	15	4	8
Barium salts	—	1	1	—	—	2
Belladonna (and atropine)	1	1	—	2	2	2
Benzol	—	—	1	—	—	—
Bleaching fluid	—	—	1	—	—	—
Bromidia	—	—	—	1	—	—
Calcium sulphide	—	—	1	—	—	—
Camphor (and camphd. oil)	1	—	2	2	3	4
Carbolic acid and preps.	2	33	5	41	5	44
Caustic soda	—	—	3	2	2	1
Chloral	2	1	3	3	1	2
Chlorbutanol	—	—	1	—	—	—
Chlorodyne	2	—	—	2	—	—
Chloroform	1	1	—	2	—	—
Cinchophen	1	—	—	—	—	—
Coal-tar derivatives	—	2	—	2	—	—
Cocaine	—	1	—	—	—	—
Codeine	—	1	—	—	—	—
Copper sulphate	—	1	—	—	—	—
Creosote	—	—	—	4	—	3
Cresols and preparations	—	—	2	6	1	4
Cresylic acid	—	4	—	—	1	—
Dial	3	2	1	—	—	2
Digitalis and preparations	1	—	—	1	—	1
Ferrous sulphate	—	—	1	—	—	—
Hebaryl sodium	1	—	—	—	—	—
Hydrochloric acid	5	55	3	42	8	44
Hydrocyanic acid	—	16	—	21	1	10
Hydrofluoric acid	—	1	—	—	—	—
Hyoscine	1	—	—	—	—	—
Insulin	1	—	1	2	1	—
Iodine and preparations	1	2	—	1	—	2
Izal	1	5	—	11	—	9
Jeyes' fluid	—	3	—	4	—	6
Killgerm	—	2	—	—	—	—
Luminal	7	2	4	6	6	9
Lysol	1	201	8	230	3	203
Medinal	2	9	—	2	—	9
Mercury	—	—	—	—	—	1
Mercuric chloride	1	2	—	4	—	2
Mercury biniodide	—	1	—	—	—	—
Metaldehyde	—	—	—	—	2	—
Methyl alcohol	—	2	—	—	—	—
Methyl salicylate and preps.	2	2	4	2	3	3

Name of Poison	1936		1937		1938	
	Negligence and Accident	Suicide	Negligence and Accident	Suicide	Negligence and Accident	Suicide
Methylated spirits	—	—	2	1	—	2
Naphthalene	1	—	—	—	—	—
Nembutal	—	1	—	1	—	—
Nicotine	1	8	1	5	1	8
Nitric acid	—	2	1	2	—	3
Nitrobenzene	1	—	—	2	—	—
Novalgin	1	—	—	—	—	—
Opium, laudanum, and morph.	2	8	1	7	4	13
Oxalic acid	—	23	—	9	—	16
Paraldehyde	3	—	2	—	4	2
Phanodorm	—	—	—	—	—	—
Phenacetin	1	—	—	1	—	—
Phenobarbitone	—	—	—	—	—	—
Phenolphthalein	—	1	2	2	1	5
Phosphorus	2	3	1	3	—	5
Potash, caustic	1	—	—	—	1	—
Potassium cyanide	1	37	1	38	3	39
Potassium oxalates	—	2	—	2	—	—
Pyramidon	1	—	—	—	1	—
Quinine	2	—	—	—	—	—
Salicylic acid	—	2	—	—	—	—
Sedormid	—	1	—	1	—	3
Sloan's liniment	—	1	2	—	—	—
Sodium barbitone	—	—	4	—	—	—
Sodium cyanide	—	5	—	2	—	—
Sodium fluoride	—	—	—	1	—	—
Somnifaine	1	—	—	—	—	—
Soneryl	1	1	—	—	—	6
Strychnine (and nux vom.)	5	11	3	6	2	6
Sulphuric acid	1	6	—	5	1	2
Trinitrotoluene	—	—	1	—	—	—
Turpentine and mixtures	—	—	—	—	2	—
Veganin	—	—	—	—	—	1
Veronal	—	—	—	—	—	5
Zinc chloride	—	—	—	1	—	—
Kind not stated	1	10	—	9	2	11

COMPANY NEWS

P.C. means Private Company and R.O. Registered Office

NIXIT CO., LTD. (P.C.).—Capital £100. Objects: To manufacture and deal in chemicals, disinfectants, etc. R.O.: St. Helens Trading Estate, St. Helens, Bishop Auckland.

JOHN T. COATS & CO., LTD. (P.C.).—Capital £10,000. Objects: To carry on business as wholesale, retail and manufacturing chemists, etc. R.O.: 105 Broughton Street, Edinburgh.

E. H. GREGORY & CO., LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of resin and turpentine merchants, etc. R.O.: Leadenhall House, 101 Leadenhall Street, London, E.C.3.

VETERINARY REMEDIES, LTD. (P.C.).—Capital £100. Objects: To manufacture and deal in veterinary preparations, etc. Solicitors: Ashurst, Morris, Crisp & Co., 17 Throgmorton Avenue, London, E.C.

C. J. DOHERTY, LTD. (P.C.).—Registered in Dublin. Capital £500. Objects: To carry on business as wholesale or retail manufacturing pharmaceutical chemists, etc. The first directors are C. J. Doherty, M.P.S.I., Westport, and K. J. Whelehan, M.P.S.I., Mullingar.

FRANCIS DRAKE & CO. (PERFUMERS), LTD. (P.C.).—Capital £100. Objects: To carry on business as wholesale, manufacturing or retail chemists, etc. Arthur J. Espley, M.P.S., and Arthur Wilson, M.P.S., directors. R.O.: Allen House, 70 Vauxhall Bridge Road, London, S.W.1.

MANCHESTER SURGICAL DRESSINGS CO., LTD. (P.C.).—Capital £500. Objects: To acquire the business of manufacturer and merchant of surgical dressings and appliances carried on by J. MacDonald, as the "Manchester Surgical Dressings Co." R.O.: Dawson Street, Greengate, Salford.

DR. LISTER'S LABORATORIES, LTD.—Mr. E. C. Malyon, A.S.A.A., was on June 10 appointed receiver and manager on behalf of the debenture holders.

A. J. WHITE, LTD.—Directors' report for year ended March 31 shows a net profit of £46,431 after providing for income tax and National Defence Contribution. £40,876 has been brought forward from last year's accounts, after providing for payment of final dividend on June 24, 1939, and applying £10,000 to goodwill reduction. To this sum has been added profit for the current year, and from it has been deducted £17,500 for interim dividend paid on January 1, 1940, leaving £69,807, out of which the payment of a final dividend of 7½ per cent. is recommended, making 12½ per cent. for the year. £20,000 has been transferred to a reserve for war contingencies and £23,557 remains to be carried forward.

TRADE NOTES

PERFUMERY PRICE LIST.—White, Tomkins & Courage, Ltd., Reigate, have issued a new price list of essential oils and perfumery products.

RICHARD DANIEL & SON, LTD., Derby, have issued a new tablet and pill price list, a copy of which will be sent to chemists on request. Apart from a wide variety of stock lines available, the company have modern plant for manufacturing products to special formulas.

FROZOCLONE.—R. Demuth's Laboratories, 68 Salusbury Road, London, N.W.6, announce that the limited supply of metal caps may render necessary the executing of orders of small size Frozoclone in the small ivorette pack. An illustration appears on another page of this issue.

BUYING AND SELLING.—Dudley & Co., Ltd., 451 Holloway Road, London, N.7, have sent out a message entitled "Buying and selling: are they unpatriotic?" It deals with the problem of whether it is right for traders to encourage sales at a time when the public is being urged to save all they can.

Proprietary Articles Trade Association

Additions to Protected List.—County Perfumery Co., Ltd., Hiltone bleach, 3s. 6d., 28s. doz. Bonus of one free on each half-dozen. Bonus of two free on each doz. *A. H. Cox & Co., Ltd.*, Zomex brand pile suppositories, 2s., 11s. 6d. doz. *Health Centre, Matlock*, Rheumief, 2s. 6d., 20s. doz.; 4s., 32s. doz.; 7s., 36s. doz. Orders over £2 subject to 3½ per cent. monthly account. Bonus terms for fourteen days' window display:—half-dozen given on half-gross 2s. 6d. size, 4s. size, or 7s. size. *Parke, Davis & Co.*, Liquid Citralka (alkalinising solution), 8fl. oz., 3s., 24s. doz. Prices in Ireland (Eire), 3s. 2d., 25s. 2d. doz.

Deletions.—*Johnson & Johnson (Great Britain), Ltd.*:—Redipak cotton wool.

Business Changes

DUKE PHARMACEUTICAL CO., LTD., have removed to Dukal Works, Rathbone Street, Liverpool, 1.

MR. T. PENDLEBURY, Wigan, has taken over the business of Mr. John W. Aspinall, 74 Lancaster Place, Blackburn.

PHARMACEUTICAL SOCIETY OF IRELAND

THE monthly meeting of the Council of the Pharmaceutical Society of Ireland was held on June 11, at 67 Lower Mount Street, Dublin, the president (Sir Thomas Robinson) in the chair. Other members of the Council present were Messrs. P. C. Cahill, F. J. Fitzpatrick, J. A. Mitchell, T. C. Scott, M. J. Kieran, C. J. Cremen, J. Gleeson, M. J. Parkes, J. A. O'Rourke, J. Duggan, J. K. Whelehan, and Miss F. M. Flood. A letter was read from the law adviser (Mr. John J. Gaynor) regarding the recent prosecution by the Society. The letter stated that having heard Counsel for the Society the Judge made an Order in the terms of the statement of claim as follows: (1) A declaration that the defendant is not, and is not entitled to hold himself out and describe himself as, a member of the Pharmaceutical Society of Ireland; (2) an injunction to restrain the defendant from claiming to be a member and from using the letters "M.P.S.I.," or describing himself as a member on his billheads, memoranda, address labels, bottle labels, or other stationery or documents, or from otherwise pretending to be a member of the Society; (3) defendant is directed to pay the costs. The letter was noted.

The following changes of address were notified: Mr. A. C. J. Austin, L.P.S.I., from Main Road, Seapoint, Cape Town, to 178 High Level Road, Seapoint; Miss M. Brooks, L.P.S.I., from National Bank House, Mountmellick, co. Kildare, to "Lisramara," 81 St. Helen's Road, Booterstown, co. Dublin; Mr. T. S. Maher, M.P.S.I., from 8 Lower Sherriff Street, Dublin, to 43 Lower Sherriff Street; Mr. M. Sheehan, L.P.S.I., from Dromahoe, Dromagh, co. Cork, to New Street, Newmarket, co. Cork; Mr. J. Ritchie, L.P.S.I., from 1 Century Street, Belfast, to "Stavordale," 25 Cardigan Drive, Cliftonville, Belfast. The following who submitted matriculation certificates were granted Preliminary registration: Misses M. P. Drury, E. T. Higgins, J. Cronin, and Mr. Dermot Lyne. The following were elected members of the Society: Messrs. F. Farnan, J. M. Hinchy, P. Hunt, M. C. Lohan, I. R. Mackey, J. J. Morrissey, R. McAdoo, Misses M. Kingston, and M. F. O'Sullivan. The Licence certificate of Miss Winifred M. J. Flanagan was signed and sealed. Completed pages of the Registers were signed. The following were nominated for membership: Messrs. P. Brady, 36 Upper John Street, Kilkenny; T. J. Harty, 1 Day Place, Tralee; James Moran, 1b Quinsboro Road, Bray; F. C. McEvoy, 65 Lower Salthill, Galway; and Miss C. O'Reilly, 11 Lower Leeson Street, Dublin.

MARRIAGES

BREWIS—MCLEAN.—At Aberdeen, on June 1, John Athol Brewis, Scottish representative of Thomas Hedley & Co., Ltd., Newcastle-on-Tyne, to Jessie McLean.

EDWARDS—JONES.—At St. John's Church, Troedyrhiw, Merthyr Tydfil, recently, Idris Owen Edwards, M.P.S., to Hannah Jones.

DEATHS

DOIG.—Recently, Mr. Charles Edward Doig, Riverside, Glemgormley, Belfast. Mr. Doig was the second son of the late Mr. William Doig, founder of William Doig & Co., Ltd., wholesale druggists, Belfast, in which business he was a director.

HARDEN.—At Bourne End, on June 17, Sir Arthur Harden, F.R.S., late head of the Biochemical Department of the Lister Institute, and Emeritus Professor of Biochemistry, London University, aged seventy-four. In 1929 the Nobel Prize for chemistry was divided between him and Professor von Euler, of Stockholm. In 1935 he was awarded Davy Medal of the Royal Society for his distinguished work in biochemistry, and especially for his fundamental discoveries in the chemistry of alcoholic fermentation.

SAUNDERS.—On June 11, Mr. Albert Arthur Saunders, M.P.S., Mapperley, Notts, aged twenty-eight. At an inquest it was stated that deceased was found dead near a defective electric circuit. A verdict of "accidentally electrocuted" was returned.

PERSONALITIES

MR. F. E. BATTERSHILL, M.P.S., 75 High Street, Barnstaple, has been elected a member of the council of the local Rotary Club.

MR. JOHN W. ASPINALL, M.P.S., who has retired (see opposite), qualified in 1886, and opened his own business at Preston New Road, Blackburn, on August 2, 1890. He is one of the oldest members of the N.E. Lancashire Branch of the Pharmaceutical Society, though he never accepted office. He has also been connected with Blackburn Chemists' Association for several years. A tribute to Mr. Aspinall's work was paid at a meeting of Blackburn Insurance Committee on June 12.

The reports of the House, Law, and Schools Committees were submitted and approved.

The REGISTRAR reported on the deaths of T. Barry, Ph.C., M. H. Glynn, Ph.C., D. J. McKinney, Ph.C., and S. Orr, R.D.

At the conclusion of the business on the agenda, Mr. CAHILL said there seemed to be a general feeling abroad that the Society should do something to help the Government in the present crisis. Accordingly he moved the following resolution: "The Council of the Pharmaceutical Society recommends its members to give every possible support to the national appeal recently issued by Dail Eireann. In this connexion members should offer their services to the new National Emergency Force, or become active members of the Irish Red Cross, or other first-aid organisation. There are over 700 pharmacies in this country, all fully equipped as emergency first-aid stations, and the Council is confident that the vast majority of its members will be prepared to place their pharmacies at the Government's disposal as temporary dressing stations in the event of a national emergency." The members of their Society, added Mr. Cahill, should do all in their power to help the Legislature to make it as difficult as possible for any outside country to take their liberty from them.

MR. FITZPATRICK, who seconded the motion, said he felt it would meet with a wide appeal, and a copy of it should be sent to the Defence Committee at once. Recently several assistants and apprentices had been in touch with the offices of the Society in connexion with service in the volunteers, and they had been given every assistance and information. One assistant already in the Army spoke of the life as a very good one for any young man. This assistant had been given every facility to do his lectures by his commanding officer.

MR. O'ROURKE said if the help suggested in the motion was to be successfully given they would need to have the assistants working with them.

MR. CREMEN: We will want the co-operation of the Assistants' Union.

THE PRESIDENT: This is as genuine an offer as we can make it.

The motion was passed unanimously.

At a meeting of the Benevolent Fund held subsequently one grant was passed for payment.



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Chemists and Air Raid Precautions

RECENT events have made it more essential than ever that the abilities of every citizen should be used to the best advantage by the Government, and in this connexion it may be asked why the facilities which are available through pharmacy are still being neglected. In April, negotiations between the Pharmaceutical Society of Great Britain and the Ministry of Health appeared to have reached a deadlock over the payment of chemists for dressings that might be used in the treatment of air raid casualties. The question that now arises is whether the matter should not again be raised—if necessary by questions in Parliament—not only in regard to payment for dressings, but also as to whether a certain number of pharmacies in every district should not be official first-aid dressing stations. Minor injuries are likely to be caused by splinters from anti-aircraft shells, falling masonry and so forth, but neither medical men nor nurses will have time to deal with such casualties if air-raids become frequent—they will be engaged in treating the more serious cases. It has been noted that in many districts, particularly where the populations are considerable, the first-aid posts provided by the local authorities are situated at wide distances apart, with each post responsible for many thousands of inhabitants. In the event of a bad raid many of such posts could not possibly accommodate and treat the expected number of casualties of all types and degrees. Much time and money has been spent in training lay persons in first-aid, yet 24,000 persons with a training in pharmacy and allied subjects (surely a most promising *personnel*) 50 per cent. of whom have premises and stocks of dressings available, have been almost completely neglected. A resolution passed at the recent meeting of the Pharmaceutical Society of Ireland (p. 447) states "There are over 700 pharmacies in this country, all fully equipped as emergency first-aid stations, and the Council is confident that the vast majority of its members will be prepared to place their pharmacies at the Government's disposal as temporary dressing stations in the event of a national emergency." Chemists in this country have endeavoured to co-operate with the Government in every way during the past five years, but the official attitude has not been very encouraging, to say the least, though possibly the new Minister of Health may have greater appreciation of the position than some of his predecessors in that office.

There is another direction in which the pharmacist's knowledge could be of great value to the community, i.e., in protecting the public against dangers arising from the contamination of foodstuffs

by poison gas. Such a matter rests primarily within the province of the Medical Officer of Health, but it is obvious that medical officers have had their duties increased so much since the outbreak of war that they are not in a position to give personal attention to the immediate task of dealing with contaminated foods. Local authorities have been asked to appoint officers for this particular duty and presumably in many cases a sanitary inspector will be the person selected. Such work could well be undertaken by one or two pharmacists in the areas covered by all the branches of the Pharmaceutical Society. The training which is usually regarded as necessary for this work is a full-time anti-gas course such as is taken by A.R.P. *personnel*. In an official memorandum that has recently been issued it is stated that the officer would be expected to consult with the public analyst of the local authority or with any other qualified chemists who may be approved by the authority regarding the subsequent handling of contaminated material, and the taking of such samples as may be required for examination and analysis. The problem of examination of contaminated foodstuffs does not appear to be as complex as is often imagined, and so far as can be seen chemical analysis will seldom be required, except in cases of arsenical contamination or damage from mustard gas.

Changes in Reserved Occupations

IN the revised schedule of reserved occupations announced by the Parliamentary Secretary to the Ministry of Labour in the House of Commons on June 6, the earlier promise of the Minister to exempt certain grades of workers in the distributive trades is implemented. In non-food categories the following are reserved after the age of thirty-five:—Company manager (including general manager of co-operative society); manager and assistant manager of departmental stores; department manager; trade supervisor; inspector; district manager; buyer. In the wholesale distributive trades the exempted grades are:—Company manager; manager; assistant manager; department manager; trade supervisor; inspector; district manager. For the purposes of the Military Service Act it is to be noted that a working owner or working principal of a business in the retail or wholesale distributive trade is regarded as a manager. The new classification will not materially affect the retail side of pharmacy, since pharmacists are already in a reserved occupation, whether owners of businesses, managers, or assistants. Certain firms in the wholesale trade will be enabled to carry on in greater security, a serious cause of apprehension having now been removed, namely the sudden removal of all experienced executive *personnel* from a trading concern.

A new edition of the Schedule of Reserved Occupations, as recently revised, has been issued by the Ministry of Labour and National Service (H.M. Stationery Office, price 1s.). The ages of reservation of pharmacists, pharmacy students, dispensers other than pharmacists, foremen and process men in galenical and chemical manufacture (fine and heavy chemicals and dyestuffs, etc.), are unchanged. New details are included regarding reservation of chemical labourers (process workers) in the following industries, age of reservation from general service being given in parentheses: Chlorine, bleach, bromine, tetra-ethyl lead and ethylene dibromide (25); fine and other heavy chemicals, galenicals and dyestuffs (30); solvent and other recovery (plant worker and still-house plant operator) (30).

Prescribing of Ergot

THE Medical Research Council has recently issued a statement urging greater economy in the prescribing of ergot. Since the outbreak of war shipments to this country have been irregular, and the wholesale price of good quality ergot has increased approximately 300 per cent. As it is unlikely that the position will become easier for some time, the strictest economy in the administration of preparations and alkaloids of ergot (compatible with adequate treatment) should be exercised. Many practitioners give ergot twice daily to every puerperal woman for a week or more after delivery. Recent observations have failed to show any difference in the rate of involution of the uterus from prolonged ergot therapy. Ergot is best administered as prepared ergot (ergota preparata, B.P.), which is more economical than liquid extracts, all forms of liquid extraction of ergot being incomplete and wasteful. Prepared ergot may be prescribed in 5-gr. tablets or 5-gr. capsules.

ARSINE POISONING

A SUPPLEMENT to the Medical Manual of Chemical Warfare, 1939, has recently been issued by the War Office, which describes arsine poisoning, its symptoms, pathology, treatment, and differential diagnosis (Arseniuretted Hydrogen Poisoning, H.M. Stationery Office, price 2d.), from which the following details are taken. Arsine is a colourless, inflammable gas, which, when liquefied, boils at about -60°C . In addition to its potential chemical warfare use as a gas in cylinder attacks, or as a non-persistent charging in shells and bombs, there is also the possibility that one of its progenitors, e.g., calcium arsenide, might be disseminated in the form of a dark-grey heavy powder, which in contact with atmospheric and soil moisture would slowly generate arseniuretted hydrogen *in situ*, over a period of hours or days, according to conditions. In moderately strong concentrations arsine possesses a nauseating garlic-like odour (frequently described as reminiscent of that of acetylene or phosphorus), and gives rise to a flat metallic taste in the mouth, but when largely diluted with air, although possibly present in toxic concentrations, it may be imperceptible to the senses. It is non-irritant to the eyes, the respiratory passages and lungs, and the skin, and exerts its poisonous action only after absorption through the lungs into the body. Its most characteristic action is the destruction of the red blood corpuscles, with consequent hæmoglobin in the urine, and the development of jaundice and anaemia. Exposure for a few minutes to a high concentration of the gas may be rapidly fatal. Even extremely low concentrations, however, can cause symptoms of poisoning, though slow in onset and mild in degree, provided that the exposure is long enough, i.e., many hours or even days. The presence of arsine can be detected by mercuric chloride or bromide test-papers which develop a yellow or orange colour when exposed for some time even to very low concentrations of the gas. Such papers are liable to give a similar colour on exposure to air in industrial areas owing to reaction with the hydrogen sulphide present, and under such conditions the test for arseniuretted hydrogen should be confirmed after the interfering gas has been removed

by passage through lead acetate granules. Details of the principal symptoms of arsine poisoning were given in the *C. & D.*, April 27, 1940, p. 332. The treatment of the condition was also briefly referred to, but the following is a more detailed consideration of measures to be taken in arsine poisoning.

Treatment.—Blood transfusion is indicated in all cases in which there is clinical evidence of severe anaemia and where the hæmoglobin falls to 60 per cent. or the red cells to 4,000,000 per c.mm. Transfusion may need to be repeated, since hæmolysis may continue for several days. For a single transfusion 500 c.cm. is an advisable quantity. Methods to promote diuresis are beneficial, for which purpose liquids should be given freely by mouth or per rectum. The quantity should be about four pints in twenty-four hours. Since arsenic is largely excreted through the kidneys a good flow of urine should, if possible, be maintained. Alkalis will aid diuresis, but organic mercurial diuretics should not be employed. Potassium or preferably sodium citrate should be administered in sufficient doses to maintain an alkaline urine. A dosage of three or four drachms in twenty-four hours will usually be sufficient. Glucose should be administered freely from the onset, either with or without insulin. It is especially indicated if there is evidence of necrosis of the liver, when, if necessary, it may be injected intravenously. Anoxaemia only occurs in anaemia when of an advanced grade. In such cases oxygen should be administered. It is unlikely that oxygen administration will result in the dramatic effect and great benefit which it affords in cases of acute pulmonary oedema due to the lung-irritant gases. Anoxaemia may, however, occur in the absence of cyanosis. It must be borne in mind that arseniuretted hydrogen causes both hæmolysis of red cells and necrosis of the liver and other organs. Light diet is indicated so long as the urine contains evidence of this toxic action. The anaemia will need full doses of iron and also treatment with liver extract in view of the effect of the gas on the liver. Cases must be kept under observation until both the blood and the urine are normal.

HORMONES AND VITAMINS IN COSMETICS

IN view of experiments which have demonstrated that androgens, oestrogens and certain vitamins are absorbed through the intact skin, and also of the widespread use of these therapeutic agents in cosmetics, Eller & Wolff ("Journal of the American Medical Association," May 11 and 18, pp. 1865 and 2002) have endeavoured to determine the margin of safety and efficacy of these substances when used in this manner. They summarise their findings as follows:—

Hormones.—Androgens and oestrogens are readily absorbed through the intact skin when applied in a solution or ointment.

By cutaneous application, hormones can cause systemic effects similar to those observed after ingestion or injection of these substances; in some instances, the effects are greater by percutaneous absorption.

Among the effects observed from the application of these substances to the skin of animals are reduction of the weight of the seminal vesicles and testes; enlargement and anaplasia of the prostate gland; increase of the height of the mammary nipples; disturbances in the menstrual cycle; changes in the mammary glands, reproductive and genital organs, and damage to the ovaries.

Absorption of oestrogens may have various effects on the gingivæ and oral mucous membranes.

Oestrogen acts directly on the pituitary, causing a decrease in the production of the gonadotrophic principle and hypertrophy.

There is a chemical structural similarity between the oestrogenic substances, the sterols, the bile acids, vitamin D and some carcinogenic hydrocarbons.

It has been reported that certain dermatoses may be benefited by inunction with oestrogens; also that certain symptoms associated with the menopause, such as arthritis ovaripriva, have been relieved. Further investigation is necessary to corroborate this.

The treatment of kraurosis vulvæ and senile vaginitis by topical applications of oestrogens has not yet proved to be efficacious.

Menstruation can be produced in ovariectomised women by cutaneous application of hormones.

It has been observed that men employed in packing ampoules of oestrogenic material have developed tender swelling of the breasts from continual handling of the oestrogenic compounds.

A commercial face cream containing oestradiol produced cancer in animals, as well as other profound systemic changes, when applied on the skin in one-fifth the amount recommended for daily use by women.

Vitamins.—It is possible for vitamins D, A and C to be absorbed

through the skin. Vitamin D applied to the skin in sufficient amounts has cured rickets in animals and human beings.

The ingestion of excessive amounts of vitamin D may produce parenchymatous nephritis, calcification of the kidneys and arteries, and skin eruptions in human beings. Vitamin D is apparently the only vitamin that may cause toxic symptoms in man when given orally, but no such effects have been reported following cutaneous applications. Small amounts of this vitamin applied on wounds or burns may accelerate the healing process, although large doses retard it. It has been reported that the topical application of vitamin A has corrected the symptoms of A-avitaminosis in animals.

There is no proof that the topical application of vitamins has any local effect on the intact human skin. The evidence that hyper-avitaminosis can accelerate tumour growth is inconclusive.

The topical application of vitamins on the skin for the treatment of vitamin deficiency is unpractical and uneconomical. In certain cases in which absorption by ingestion is ineffective and injection is inadvisable, the percutaneous method may be tried.

The use of vitamins in creams, lotions and soaps has not been proved to have cosmetic value.

The authors draw the following conclusions from the above observations. Cosmetics should not contain potent ingredients having constitutional effects. There is a potential danger to normal persons using cosmetics containing active therapeutic substances which, in the practice of medicine, are used to produce systemic changes. Secrecy should be abolished regarding the ingredients of products offered to the public for cosmetic use. Complete knowledge of the chemistry and composition of such preparations should be readily available. It is well established that even small quantities of substances may cause an allergic response in certain individuals. Cosmetic preparations which function by hormone or vitamin action might more properly be classed as therapeutic agents.

VACCINE FOR TYPHUS.—Paul Durand and Paul Giroud ("Comptes Rendues de l'Académie des Sciences," 210, 493) announce the discovery of a vaccine for typhus. The product is prepared by macerating the lungs of infected mice or rabbits with horse or human serum to which has been added four times its volume of normal salt solution, with the addition of 0.2 per cent. of formalin. This is filtered by centrifuge to remove the cell debris and stored in a refrigerator for five days, after which the vaccine is ready for use. Extensive tests on animals and some experiments on human beings have been carried out.

TRADE REPORT

Spot quotations recorded for pharmaceutical chemicals, crude drugs, essential oils, etc., represent the prices for wholesale quantities of standard quality. C.i.f. shipment quotations do not include marine war risk insurance and other abnormal charges which arise under the present state of emergency

28 Essex Street, W.C.2, June 19

THE international developments of this week will undoubtedly have early repercussions on the markets, but at the time of writing it is impossible to estimate what the precise effects will be. It is likely that higher prices will rule in the near future for commodities from France and French possessions, and it is possible that in many cases alternative sources of supply will have to be found. During the week a fair amount of routine spot business has been done but, owing to the prevailing conditions, importers have been disinclined to enter into forward commitments. Business in PHARMACEUTICAL CHEMICALS has been quiet, with some demand for small parcels. The only important changes in prices have been advances in SODIUM AND POTASSIUM TARTRATE, SEIDLITZ POWDER and DOUBLE SEIDLITZ POWDER.

Crude Drugs

In these markets spot business continues along routine lines, with a fair demand for most products. The general tone is quite steady, and stocks of some commodities are small, with no shipment offers. There are still no forward offers of AGAR, and stocks are now comparatively limited. The demand for CURAÇAO ALOES is maintained, and some business is reported in Zanzibar leaves. Steady sales of Japanese CAMPHOR continue, but no forward business is being done. CARDAMOMS is steady and quiet. The CLOVES market is fairly active, with Zanzibar easier on spot and for shipment. DERRIS ROOT continues in fair demand. GINGER remains a quiet market, with spot quoted easier. The spot value of Sudan GUM ACACIA has advanced. HONEY is quiet, with quotations unchanged. Spot stocks of MATTO GROSSO IPECACUANHA continue to be firmly held. Japanese MENTHOL is firm on spot, with a fair business passing. MERCURY is again quoted dearer ex London warehouse. PEPPER is nominal. Demand for all descriptions of RHUBARB continues fair, with supplies limited. SENEGA is firmly held on spot, with fair stocks available. Tinnevely SENNA remains firm, with quotations unchanged, Alexandrian is nominal.

Essential Oils

Dealers report quiet business generally in these products, with quotations mostly unchanged. Expressed ALMOND is quoted slightly dearer on spot. ANISE is dull and unchanged. BAY is dearer on spot. The position of BERGAMOT is unchanged and any spot price would have to be negotiated. BOIS DE ROSE is firmer on spot, with no shipment offers. Rather more interest is shown in Ceylon CITRONELLA. Madagascar CLOVE is quoted slightly dearer on spot. GERANIUM is firm. GRAPEFRUIT is reported dearer. Prices for Sicilian LEMON continue nominal; Californian is quoted dearer on spot and no shipment offers for cold-pressed are available. A better call is reported for ORANGE, and French GUINEA is quoted slightly dearer. PALMAROSA is firm, PATCHOULI nominal. SPIKE is reported rather dearer, with supplies limited.

Exchange Rates on London

The following is a list of the chief Continental and other exchange rates at the opening on Wednesday morning:—

Centre	Quoted	Par	June 12	June 19
Amsterdam ..	Fls. to £	12:107	—	—
Brussels ..	Belgas to £	nominal	—	—
Buenos Aires ..	Paper pesos to £	—	17:17*	17:06*
Copenhagen ..	Kr to £	18:159	—	—
Lisbon ..	Esc. to £	110	100½	100
Madrid ..	Ptas. to £	25:24½	36	39:50
Montreal ..	Dols. to £	4:86½	4:45*	4:45*
New York ..	Dols. to £	nominal	4:03*	4:03*
Oslo ..	Kr. to £	18:159	—	—
Paris ..	Fr. to £	124:21	176½	—
Shanghai ..	Per dollar	—	4:16d.	4d.
Stockholm ..	Kr. to £	18:150	16:90*	16:90*
Yokohama ..	Per yen	25.	15. 4½d.	15. 4½d.
Zurich ..	Frs. to £	22:2115	17:90*	17:90*

* Rate fixed by Bank of England. Bank rate, 2 per cent.

Pharmaceutical Chemicals, etc.

CONDITIONS continue quiet, with a fair demand for small lots of some products. The undertone is firm and price changes are few. Makers notify advances in sodium and potassium tartrate, seidlitz and double seidlitz powders.

ACETANILIDE.—Spot demand limited; prices steady: B.P. leviss., for prompt delivery, from 2s. 2d. to 2s. 6d. per lb., according to quantity.

AMIDOPYRINE.—Limited spot inquiry; dealers' prices firm. One cwt., 19s. per lb.; smaller quantities, up to 23s. per lb. for crystals, with powder 3d. per lb. extra.

AMMONIUM ICHTHIOSULPHONATE.—Dealers' prices unchanged: One-cwt. lots, in 1-lb. tins, 3s. 6d.; smaller lots, 3s. 9d. per lb., ex store.

ASPIRIN TABLETS.—The agreed scale of prices for bulk quantities continues to operate: Under 5,000, 3s. 1½d.; 5,000, 2s. 11½d.; 10,000, 2s. 10½d.; 25,000, 2s. 8½d.; 50,000, 2s. 7½d.; 100,000, 2s. 6½d.; 250,000, 2s. 6d.; 500,000, 2s. 5½d.; 1,000,000, 2s. 4½d.; 2,000,000, 2s. 3½d., per 1,000. Re-sale clause applies to all bulk sales.

ATROPINE.—Makers' prices per oz. are steady at the recent advance, as follows:—

	oz.	4 oz.	25 oz.
Alkaloid	21s. od.	20s. 6d.	20s. od.
Sulphate	16s. 6d.	16s. od.	15s. 6d.

Bottles, under 5 gm. or ½ oz., corked, 3d.; stoppered, 5d.; 5 gm. to 25 gm. or ½ oz. to 1 oz., corked, 3½d.; stoppered, 6d.; 25 gm. or 1 oz., corked, 3½d.; stoppered, 7½d.; 50 gm. or 2 oz., corked, 4d.; stoppered, 9d. each; 100 gm. and over, included in price; tubes, per 100, 5-gr., 10s. 6d.; 10-gr., 12s. 3d.; 15-gr., 14s.

BARBITONE.—Market remains quiet: Spot, one cwt., 22s. per lb.; 28 lb., 23s.; smaller quantities, up to 26s., ex store.

BENZALDEHYDE.—Market firm; fair inquiry. Makers quote from 2s. 9d. to 3s. per lb., as to quantity.

BENZOIC ACID (B.P.).—Good demand; prices steady at from 2s. to 2s. 3d. per lb. for forward delivery.

BENZYL BENZOATE.—Makers' quote about 2s. 9d. to 3s. per lb., with supplies limited.

BORAX (B.P.).—Makers' prices continue steady: Granulated, £28 10s.; crystals, £29 10s.; powder, £30 per ton, in 1-cwt. bags, carriage paid in Great Britain, in minimum one-ton lots. Commercial quality, £8 per ton less.

BORIC ACID (B.P.).—Makers' prices continue steady: Granulated, £42 10s.; crystals, £43 10s.; powder, £44 10s. per ton, in cwt. bags, carriage paid in Great Britain, in minimum one-ton lots. Commercial qualities, £8 per ton less.

BROMIDES.—Makers' scales of prices steady: POTASSIUM (B.P.), not less than 5 cwt., 2s. 2d. per lb.; 1 cwt., 2s. 3d.; 28 lb., 2s. 9½d. SODIUM (B.P.), not less than 5 cwt., 2s. 4½d. per lb.; 1 cwt., 2s. 5½d.; 28 lb., 3s. AMMONIUM (B.P.C.), not less than 5 cwt., 2s. 5½d. per lb.; 1 cwt., 2s. 6½d.; 28 lb., 3s. 1d. Net. Rise-and-fall and re-sale clauses apply. Without engagement. Special prices for larger quantities. 28-lb. parcels and 1-cwt. cases or kegs free.

CAFFEINE.—Any foreign material available on spot would be at the following prices: PURE, less than 56 lb., 23s. 6d. per lb.; 56 lb., 23s.; 1 cwt., 22s. 6d. CITRATE, less than 56 lb., 16s. per lb.; 56 lb., 15s. 6d.; 1 cwt., 15s. per lb.

CALCIUM LACTATE.—Makers are quoting up to 1s. 8d. per lb. for small quantities.

CITRATES.—Makers' scales of re-sale prices unchanged, as follows:—

POTASSIUM, B.P.	In containers of					
	1 lb.	2 lb.	4 lb.	7 lb.	14 lb.	28 lb.
Under 4 lb. ..	s. d. 3 0	s. d. 2 10½	s. d. —	s. d. —	s. d. —	s. d. —
4 lb. and under 7 lb. ..	2 11	2 9½	2 9½	—	—	—
7 lb. and under 14 lb. ..	2 10	2 8½	2 8½	2 7½	—	—
14 lb. and under 28 lb. ..	2 9	2 7½	2 7½	2 6½	2 6½	—
28 lb. and under 1 cwt. ..	2 8	2 7	2 6½	2 5½	2 5½	2 5

28-lb. tins charged 2s. each.

SODIUM, B.P., one penny per lb. below corresponding prices for POTASSIUM, B.P. IRON AND AMMONIUM (SCALES), B.P., three-pence per lb. above corresponding prices for POTASSIUM, B.P. Prices net. All packages charged extra. It is a condition of sale that buyers undertake not to re-sell any of the products mentioned at prices below the values given, which came into operation on January 24.

CITRIC ACID (B.P. CRYSTALS).—Makers' price for home consumers is nominal at 1s. 2d. per lb., less 5 per cent. discount.

CODEINE.—Makers' scales of prices per oz. continue steady:—

	½ oz.	1 oz.	2 oz.	3 oz.	4 oz.	5 oz. and upwards
Alkaloid	s. d. 36 6	s. d. 34 0	s. d. 32 6	s. d. 31 9	s. d. 31 6	s. d. 28 4
Hydrochloride	32 9	30 3	28 9	28 0	27 9	25 3
Iodide	36 6	34 0	32 6	31 9	31 6	28 4
Phosphate	30 6	28 0	26 6	25 9	25 6	22 9
Sulphate	32 9	30 3	28 9	28 0	27 9	25 3

COCAINE.—No change in British makers' quotations for wholesale bulk quantities: HYDROCHLORIDE and NITRATE, 25 oz. and over, 29s. 9d.; 16 oz. and less than 25 oz., 30s. 9d.; over 8 oz. and less than 16 oz., 31s. 9d. per oz. PURE, CITRATE, and SALICYLATE, 25 oz. and over, 32s. 6d.; 16 oz. and less than 25 oz., 33s. 6d.; over 8 oz. and less than 16 oz., 34s. 6d. per oz., 16-oz. packages free. Smaller packing extra. The scale of prices applicable to distributors of smaller quantities is as follows: HYDROCHLORIDE and NITRATE, 8 oz., 34s. 1d.; 4 oz. and less than 8 oz., 34s. 7d.; 2 oz. and less than 4 oz., 35s. 5d.; 1 oz. and less than 2 oz., 36s. 5d.; ½ oz. and less than 1 oz., 37s. 11d.; ¼ oz. and less than ½ oz., 40s. 11d. per oz. PURE, CITRATE and SALICYLATE, 8 oz., 36s. 10d.; 4 oz. and less than 8 oz., 37s. 4d.; 2 oz. and less than 4 oz., 38s. 2d.; 1 oz. and less than 2 oz.,

39s. 2d., $\frac{1}{2}$ oz. and less than 1 oz., 40s. 8d.; $\frac{1}{4}$ oz. and less than $\frac{1}{2}$ oz., 43s. 8d. per oz., packages extra. Re-sale: Sales are subject to buyers' undertaking not to re-sell any quantity below the scale of prices for such quantity current at the time of re-sale. Export prices vary according to destination.

CREAM OF TARTAR (B.P.).—A nominal price for home trade of 127s. per cwt., less 2½ per cent. discount, is notified by one maker, with supplies restricted to regular consumer customers. Another maker quotes at 140s. per cwt., with only limited quantities available.

CREOSOTE (BEECHWOOD).—Dealers quote at about 4s. 6d. for bulk quantities in 25-kilo demijohns; for smaller quantities, up to 5s. per lb., ex store.

EMETINE HYDROCHLORIDE.—Makers continue to quote from 100s. and 104s. per oz., as to quantity.

ETHERS (METHYLATED).—Makers' scales of prices steady at the increase recorded recently:—

Grade	W. qts., per lb.	Not less than		Drums, per lb.
		6 w. qts., per lb.	12 w. qts., per lb.	
S.G.	S. d.	S. d.	S. d.	S. d.
0.750	1 4½	1 4	1 3½	1 2½
0.735	1 5	1 4½	1 4	1 3
0.730	1 5	1 4½	1 4	1 3
0.725	1 7	1 6½	1 6	1 5
0.725, triply rectified	1 11½	1 11	1 10½	1 9½
0.720	1 8	1 7½	1 7	1 6
0.717	2 2	2 1½	2 1	2 0
0.720 B.P., not for anaesthesia	1 10	1 9½	1 9	1 8

Net prices, usual terms. Special prices for quantities and contracts, subject to rise-and-fall clause. Prices for anaesthetic ethers unchanged.

GUAIACOL CARBONATE.—Limited inquiry; makers and dealers quote from 12s. 6d. to 13s. per lb., ex store, as to quantity.

GUAIACOL (CRYSTALS).—Makers' quotations unchanged at from 10s. 9d. to 11s. 6d. per lb., as to quantity. Liquid, from 10s. 6d. upwards, as to quantity.

LACTIC ACID (B.P.).—Not much inquiry; values unchanged. Quantities, in 1-cwt. carboys, 1s. 8½d. per lb.; in winchesters and bottles, 1s. 9d. to 2s. per lb., ex store, according to quantity.

MERCURY IODIDES.—Makers' prices per lb. remain steady: RED, less than 7 lb., 17s. 4d.; not less than 7 lb., 17s.; not less than 14 lb., 16s. 6d. GREEN, less than 7 lb., 19s. 4d.; not less than 7 lb., 19s.; not less than 14 lb., 18s. 6d. YELLOW, less than 7 lb., 20s. 6d.; not less than 7 lb., 20s. 6d.; not less than 14 lb., 20s. net, carriage paid.

MERCURY SULPHIDE, RED (VERMILION).—Controlled prices show no change: Over 7 lb. but not more than 30 lb., 13s. 11d.; over 30 lb. but less than 1 cwt., 13s. 10d.; 1 cwt. and over but less than 5 cwt., 13s. 9d.; 5 cwt. and over but less than 10 cwt., 13s. 8d.; 10 cwt. and over but less than 20 cwt., 13s. 7d.; 20 cwt. and over, 13s. 6d. per lb. Packages free; delivery free on orders of £10 and over; all prices net cash fourteen days.

METHYL SULPHONAL.—Quiet and steady; spot, in limited supply, quoted at about 40s. to 42s. 6d. per lb., ex store.

PHENACETIN.—Makers' prices are firm at from 3s. 6d. to 3s. 9d. per lb., and quotations are given without engagement. Dealers are quoting about 6s. 9d. to 7s. per lb., with only small supplies available.

PHENAZONE.—Spot in limited supply and quoted at between 18s. per lb. for bulk quantities, and 22s. per lb. for small parcels, ex store.

PHENOLPHTHALEIN.—Makers' prices firm and unchanged. Less than 7 lb., 3s. 8d. per lb.; 7 lb., 3s. 7d.; 14 lb., 3s. 6d.; 28 lb., 3s. 5d.; one cwt., 3s. 4d.

PHENYLETHYLBARBITURIC ACID (B.P.).—Quotations continue firm at from 30s. to 32s. 6d. per lb., in bottles, according to quantity.

PHOTOGRAPHIC CHEMICALS.—Home makers' prices are steady as quoted: SODIUM HYPOSULPHITE.—5 cwt., 20s.; 1 cwt., 23s.; 56 lb. for 12s. 6d.; 28 lb. for 6s. 6d. SODIUM CARBONATE, RECRYST.—5 cwt., 13s. 9d.; 1 cwt., 17s.; 56 lb. for 12s. 6d.; 28 lb. for 6s. 6d. ALUM (PHOTOGRAPHIC QUALITY).—1 cwt., 23s.; 28 lb. for 6s. 6d. GLYCIN.—7 lb., 13s. 6d.; 1-lb. bottles, 14s. 6d. POTASSIUM FERRICYANIDE.—Prices were recently advanced by sixpence per lb., as follows: 28 lb., 3s. 1d.; 14 lb., 3s. 3d.; 7 lb., 3s. 6d.; less than 7 lb., 3s. 9d. per lb.; 1-lb. bottles, 4s. 3d.; 8-oz. bottles, 2s. 6d.; 4-oz., 1s. 5d.; 1 oz., 10d. each. AMIDOL, 1 cwt., 8s. 6d.; 56 lb., 8s. 9d.; 28 lb., 9s. per lb., net; 14 lb., 9s. 9d.; 7 lb., 10s. 6d.; less than 3 lb., 12s. 6d. per lb., 2½ per cent. monthly account. Bulk parcels and tins free. 1-lb. bottles, 6d. extra. CHLOROQUINOL.—1-lb. bottles, 21s. per lb. HYDROQUINONE.—1 cwt., 6s. 4½d.; 56 lb., 6s. 7d.; 28 lb., 6s. 10d. per lb., net; 14 lb., 7s. 3d.; 7 lb., 7s. 6d.; less than 7 lb., 8s. per lb., less 2½ per cent. monthly account. Retail quantities: 16 oz., 8s. 6d.; 8 oz., 4s. 6d.; 4 oz., 2s. 8d. Trade prices in bottles: 1-lb. bottles, 8s. 6d. each; 8-oz. bottles, 4s. 6d. each; 4-oz. bottles, 2s. 8d. each; 1-oz. bottles, 1s. 1d. each, with retail selling prices 50 per cent. additional. GOLD CHLORIDE.—15-grain tubes, 53s. per doz. MAGNESIUM POWDER.—15. 9d. per lb. PARAMIDOPHENOL HYDROCHLORIDE.—9s. per lb., bottles free. POTASSIUM METABISULPHITE.—One cwt., 1s. 3d.; 28 lb., 1s. 6d.; 14 lb., 1s. 7d.; 7 lb., 1s. 9d.; 1 lb., 2s.; 16-oz. bottles, 2s. 6d.; 8-oz. bottles, 1s. 6d. each; 4-oz. bottles, 1s. each; 1-oz. bottles, 8d. each. PYROGALLIC ACID, CRYST.—1 cwt. and over, 9s.; 56 lb., 9s. 3d.; 28 lb., 9s. 6d.; 14 lb., 10s. 6d.; 7 lb., 11s.; less than 7 lb., 11s. 6d. per lb. Bulk tins free, 1-lb. tins, 4d. extra and 1-lb. bottles, 6d. extra. PYROGALLIC ACID, RESUB.—1 lb., 15s.; 8 oz., 8s. 3d.; 4 oz., 4s. 9d. each; 1 oz., 22s. per doz. oz. SODIUM SULPHIDE

(PURE).—7 lb., 1s. 9d.; 1 lb., 2s. per lb., bottles free. SODIUM SULPHITE RECRYST.—One cwt., 24s. 6d. per cwt.; 56 lb. for 13s. 3d.; 28 lb. for 7s. METOL.—1 cwt., 11s.; 56 lb., 11s. 3d.; 28 lb., 11s. 6d. per lb., net; 14 lb., 12s.; 7 lb., 12s. 9d.; 3 lb., 13s. 6d.; less than 3 lb., 14s. per lb., less 2½ per cent. monthly account; bulk tins free; 16-oz. bottles, 6d. each extra. Retail quantities: 16 oz., 14s. 6d.; 8 oz., 8s.; 4 oz., 4s. 3d., bottles free.

PIPERAZINE.—The price for bulk quantities would be about 75s. per lb.; small lots, in 1-oz. bottles, 5s. 6d. to 6s. per oz.

POTASSIUM PERMANGANATE.—Makers' scales of prices are unchanged:—

Minimum delivery of	B.P. Quality		Technical	
	In 1-cwt. drums Per lb.	In 5-cwt. drums Per lb.	In 1-cwt. drums Per cwt.	In 5-cwt. drums Per cwt.
	S. d.	S. d.	S. d.	S. d.
1 cwt. up	1 5½	—	161 6	—
3 cwt. up	1 5	—	157 0	—
5 cwt. up	1 4½	1 4½	154 6	152 0
1 ton up	1 4½	1 4½	152 0	149 6
4 tons up	1 4½	1 4	149 6	147 3

Terms: Net, delivered nearest railway station in Great Britain; drums extra and returnable.

RESORCIN.—Market is steady at makers' prices: Not less than 7 lb., 7s. 3d. per lb.; not less than 14 lb., 7s.; not less than 56 lb., 6s. 10d.; not less than 1 cwt., 6s. 9d. Any spot material in dealers' hands would be at about 8s. 6d. to 9s. per lb.

ROCHELLE SALTS.—Makers' prices for SODIUM AND POTASSIUM TARTRATE, B.P., have been advanced by 20s. per cwt., and are now as follows: Powder, less than 1 cwt., 132s. 6d.; less than 5 cwt., 130s.; not less than 5 cwt. in one delivery, 127s. 6d.; crystals, 2s. 6d. per cwt. extra. PULV. SEIDLITZ.—Advanced by 15s. per cwt.; less than 1 cwt., 103s. 9d.; less than 5 cwt., 101s. 9d.; not less than 5 cwt. in one delivery, 100s. per cwt. DOUBLE SEIDLITZ.—Advanced by 17s. per cwt.; less than 1 cwt., 116s.; less than 5 cwt., 113s. 9d.; not less than 5 cwt. in one delivery, 111s. 6d. per cwt., net, from fourteen days, without engagement; contracts subject to rise-and-fall clause.

SACCHARIN.—The duty-paid Convention price for 550 material continues advanced at 98s. 4d. per lb., with supplies somewhat limited. Neither wholesale nor retail prices are under Government control.

SALOL.—Prices continue firm at about 6s. 9d. to 7s. per lb., as to quantity.

SODIUM BARBITONE.—Market quiet; prices steady: One cwt., 23s. per lb.; 28 lb., 24s.; smaller quantities, 77s., ex store.

SODIUM BENZOATE.—In good demand, with supplies limited. Prices firm at from 1s. 10d. to 2s. per lb.

SULPHONAL.—Market steady; a fair demand for small quantities. Dealers' quotations are between 33s. and 35s. per lb., according to quantity.

VANILLIN.—Quoted unchanged, with supplies limited. Ex clove oil or guaiacol, five cwt., 14s. 6d. per lb.; one cwt., 14s. 7½d.; 56 lb., 14s. 9d.; less than 56 lb., 15s., carriage paid in the United Kingdom.

Crude Drugs, etc.

A FAIR amount of routine spot business has been done in these markets but owing to the uncertain conditions prevailing, forward transactions have been reduced.

ACONITE ROOT.—First-hand supplies appear to be negligible, but some napellus is reported about due to arrive.

AGAR.—Spot business is of a routine character, with values unchanged. Kobe No. 1 is worth about 8s. to 8s. 3d. per lb.; Kobe No. 2, about 7s. 9d.; and Yokohama No. 1, about 7s. 9d., all duty paid. Spot is reported to be in short supply and no shipment offers are available from Japan.

ALKANET ROOT.—Spot material would be worth about 80s. per cwt., ex store, if available.

ALOES.—The Curaçao material continues in small demand, with spot supplies running low. The value of spot would be about 300s. per cwt., ex store. No forward business is reported, but about 230s. per cwt., c.i.f., would be the value. Cape continues steady at the prices recorded last week. Some spot business is reported done in Zanzibar leaves at 90s. per cwt., ex store.

ANTIMONY.—Quiet, with quotations unchanged: English regulus, £106; Continental regulus, £99 per ton, duty paid; Chinese, crude, £98 per ton.

BALSAMS.—Tolu, in rather limited supply and quoted at about 7s. 6d. per lb. Some Canada reported available at about 5s. 6d. Copaiba, Para, is worth about 3s. 6d. Peru, about 8s. 9d. per lb., duty paid. Business is quiet.

BELLADONNA.—About 175s. per cwt. would be the spot value for leaves, if available; root nominal and scarce.

BENZOIN.—Business has been steady throughout the week, with values unchanged. Spot is quoted at about £5 10s. to £6 10s. for Sumatra, according to quality.

BISMUTH METAL.—The metal shows no change at 1 dollar 25 cents per lb., ex store.

BUCHU.—There is little activity in this market. Stocks in London are now somewhat limited, and no advice has been received of forward deliveries. New-crop rounds would be worth about 2s. 7d. to 3s., and ovals about 2s. 7d. per lb.

CACAO BUTTER.—Prime English is quoted at about 1s. 2½d. per lb., on spot; foreign, about 1s. 1d. per lb., duty paid.

CAMPOR.—At unchanged prices, with demand steady. Tablets are valued on spot at about 5s. 6d. per lb. and slabs at about 5s. 3d. No shipment prices are available from Japan. Continental synthetic powder, 5s. 3d.; tablets, 5s. 6d. per lb., ex store. English makers of refined quide the following prices: Flowers, one cwt., 5s. 9d.; 28 lb., 5s. 10d.; less than 28 lb., 5s. 11d. per lb. Transparent tablets, $\frac{1}{4}$ -oz., one cwt., 6s. 3d.; 28 lb., 6s. 4d.; less than 28 lb., 6s. 5d. per lb.

CANTHARIDES.—Some inquiry reported this week. Chinese is quoted forward at about 4s. 6d. per lb., c.i.f. Any Russian on spot would be worth about 6s. per lb.

CARDAMOMS.—Not much life in this market; quotations unchanged. Ceylon, spot, about 3s. 6d. to 5s. per lb., according to quality; Bombay seed, about 4s. 6d. per lb.; Mangalore seed, about 4s. 3d.; Aleppy greens, about 3s. 2d. per lb.

CASCARA SAGRADA.—A fair spot demand continues for older peel; the value is about 95s. upwards per cwt., duty paid, according to age. Some offers of new-crop peel are reported from source at between 65s. and 75s. per cwt., e.i.f., but no business is being done.

CASCARILLA.—About steady, with occasional business: Spot, about 1s. 6d. per lb.; siftings, about 1s. 4d. per lb.

CHAMOMILES.—Any good white flowers on spot would be worth about 300s. to 325s. per cwt., ex store.

CLOVES.—Some activity reported in this market. Zanzibar, spot, 9d. per lb.; shipment, June–July, 9d., c.i.f.; Madagascar, sellers, 9½d., in bond; shipment, June–July, 9½d. per lb., c.i.f.

COCONUT (DESICCATED).—Market quiet; spot supplies quoted rather dearer at about 27s. per cwt.; medium, about 26s. 6d. per cwt.

COD LIVER OIL.—Quotations for finest-quality British medicinal oil nominal. Norwegian position unchanged.

COLOCYNTH.—About 1s. 8d. per lb. is quoted on spot for pulp.

DANDELION ROOT.—The spot price for any material available is a matter for negotiation.

DERIS ROOT.—Fair routine demand. Root testing about 18 per cent. ether extract is valued on spot at about 7½d. to 8½d. per lb. Root of about 4 to 5 per cent. rotenone content would be worth about 1s. 2d. per lb., if available. No shipment offers.

ERGOT.—Portuguese is now valued on spot at about 24s. to 25s. per lb.; shipment prices are at weaker figures than those reported last week, as low as 15s. per lb., e.i.f., being mentioned. Spanish is valued on spot at about 26s. per lb., and Hungarian, spot, at about 15s. to 15s. 6d. per lb. for small lots.

GAMBOGE.—Demand has now slackened, and little is available under about £25 to £26 per cwt., duty paid, for good-quality Siam pipe.

GENTIAN.—Any root available on spot would be worth about 52s. 6d. to 55s. per cwt., ex store.

GINGER.—Continues quiet. West African is quoted easier on spot at about 29s. per cwt.; shipment, June–July, unchanged at 24s., c.i.f. Jamaican, spot, small medium, 52s. 6d.; bold, in barrels, 85s. per cwt., ex store. Cochin, unwashed, 45s. per cwt., ex store; shipment, 33s. per cwt., c.i.f.

GUM ACACIA.—The spot value of Kordofan cleaned sorts is now about 65s. per cwt.; shipment values are nominal.

HENBANE.—Nominal, with spot supplies limited.

HENNA.—About 55s. per cwt. is quoted for new-crop Egyptian leaves, ex store.

HONEY.—Not much business passing; prices firm. Jamaican, spot, nominal at about 90s. to 105s. per cwt. Canadian is quoted at about 95s. per cwt., ex store, with supplies limited. Some Australian is reported available in London at between 80s. to 85s. per cwt., according to grade.

HYDRASTIS.—Steady and quiet; untested root is worth about 20s. per lb. on spot; tested, about 23s.

IPECACUANHA.—Firm, with good-test Matto Grosso at about 28s. upwards per lb., ex store; shipment, July–August, firm at about 24s. to 25s. per lb., c.i.f. Minas, spot, about 12s. 9d. to 13s. per lb., according to test; shipment, about 10s. 3d. per lb., c.i.f. EXT. IPECAC. LIQ., 35s. 6d. per lb. for minimum lots of twelve winchesters.

LAVENDER FLOWERS.—Some spot material is reported available at about 1s. 8d. per lb., ex store.

MENTHOL.—A fair amount of inquiry continues for the Chinese product, which is quoted on spot at about 16s. to 16s. 6d. per lb., duty paid. Prices from China vary between 15s. and 15s. 6d., according to seller, with re-sellers at about 14s., c.i.f. Japanese is quiet and unchanged, with KS brands at about 20s. per lb., duty paid, and 19s., in bond; shipment, about 25s. per lb., c.i.f.

MERCURY.—The only price available is one of £53 18s. 6d. per bottle of 34.5 kilos net, ex warehouse London, without engagement and subject to confirmation.

ORANGE PEEL.—Bitter quarters, if available, would be at about 1s. 2d. per lb., ex store.

PEPPER.—Nominal. Lampong, in bond, spot, 3½d. per lb.; shipment, June–July, 2½d., c.i.f. Tellicherry, spot, 4½d.; shipment, June–July, 34s. per cwt., c.i.f. Aleppy, spot, 4½d.; shipment, June–July, 34s. per cwt., c.i.f. White Muntok, spot, duty paid, 5½d.; in bond, 4½d.; shipment, June–July, 4½d. per lb., c.i.f.

PIMENTO.—Market steady, with only a limited business passing. Spot is quoted at about 1s. per lb.; shipment, 112s. per cwt., c.i.f.

QUILLAIA BARK.—About 75s. per cwt. is asked for spot material, ex store.

RHUBARB.—A fairly good spot demand continues, with good-quality rough-round in poor supply; the price is about 4s. 10½d. to 5s. 3d. per lb. Shipment prices vary between 4s. 8d. and 5s. 8d. for good-quality rough-round, according to shipper. Shensi is quoted on spot at about 7s. 3d. and 7s. 6d. per lb.

RUBBER.—The last available prices were as follows:—Standard ribbed smoked sheet, spot, 13½d.; shipment, July, 13½d.; August, 13½d.; October–December, 11½d.; January–March, 11½d. per lb.

SEEDS.—ANISE.—Spot, Syrian, 80s.; Bulgarian, 80s., both duty paid; Cyprus, 85s., duty free. CANARY.—Spot, duty paid, Mazagan, 25s. 6d.; Morocco, 24s. 6d.; Plate, 24s. 6d. CARAWAY.—Spot, Dutch, quoted at 150s., duty paid. CORIANDER.—Spot, Morocco, offered at 21s., duty paid, and 20s., in bond. CUMIN.—Spot, Malta, 85s., Cyprus, 77s. 6d., duty free; Morocco, 80s., duty paid, and 75s., in bond. DILL.—Spot, Indian, 35s., ex store London or Liverpool. FENNEL.—Spot, market quiet, Indian, 52s. 6d. to 57s. 6d.; Iran, 50s. to 55s., in bond. FENUGREEK.—Spot, Morocco, 20s., duty paid, ex store London or Liverpool. MUSTARD.—Re-cleaned, 57s. 6d. to 65s., according to quality.

SENEGA.—Spot is firmly held at about 4s. 9d. per lb.; shipment, June–July, about 3s. 6d. per lb., c.i.f.

SENNA.—Tinnevely continues firm on spot, with prices unchanged; best pale hand-picked pods are worth about 10½d. per lb., with darker grades at between 6½d. and 7½d.; f.a.q., 5½d. per lb.; leaves are valued at about 8½d. for No. 1, 5½d. for No. 2, and 4½d. for No. 3. Hand-picked Alexandrian are nominal, with not much available on spot.

SHELLAC.—Market nominal and unquoted.

STRAMONIUM LEAVES.—Quoted on spot at about 75s. per cwt.

TONKA BEANS.—Fair frosted Para beans quoted at from 2s. to 2s. 6d. per lb. as to quality and quantity, ex store. Angostura, spot, 9s. per lb. Business continues quiet.

TRAGACANTH.—Quoted values are mostly unchanged; market continues quiet. Finest selected white ribbon, from £82. No. 1, white, £75; No. 2, white, £63; No. 3, white, £49; pale leaf, £30; amber leaf, £21; red leaf, from £10 10s. Woody and hogg, from £5. All prices are per cwt., ex store London.

TURMERIC.—Spot, Madras finger, 42s. 6d.; Rajapore, 42s. 6d. No business reported at these figures. For June–July shipment, Rajapore, 35s., c.i.f., and Madras, 34s., c.i.f.

VALERIAN ROOT.—Supplies in first hands appear to be negligible, and price would be a matter for negotiation.

WAXES.—BEES': Business fair; prices steady. Spot, from 175s.; in bond, 160s.; shipment, Dar-es-Salaam, 165s. per cwt., c.i.f. Japanese, first three brands, spot, 120s., duty paid; shipment, 110s., c.i.f. CARNAUBA: Fatty grey, 400s.; chalky grey, spot, 390s.; Primeira, spot, 485s.

Essential and Expressed Oils, etc.

The markets have been generally quiet. Spot prices of some oils are nominal. Bois de rose is firmer. More interest is being shown in Ceylon citronella. Grapefruit is firmer. A better call is reported for orange. Californian lemon oil is quoted dearer on spot.

ALMOND.—Good demand for small quantities. Expressed, spot, about 3s. 5d. to 3s. 11d. per lb. in cwt. lots, and up to 3s. 11d. per lb. for smaller quantities, ex store. Genuine French bitter is valued at about 13s. 6d. to 14s. 6d. per lb., ex store.

ANISE (STAR).—Spot market dull and unchanged. Tins in cases, about 4s. 2d. per lb.; drums, about 4s.; shipment, June–July, tins in cases, 3s. 8d. to 3s. 9d.; drums, about 3s. 6d. per lb., c.i.f.

AVOCADO PEAR.—Spot price is about 55s. to 57s. per gallon, delivered; smaller quantities extra.

BAY.—Spot is quoted at about 5s. 3d. to 6s. per lb., ex store, according to quantity.

BERGAMOT.—About 55s. per lb. is mentioned as the nominal spot price for genuine oil, with stocks limited.

BOIS DE ROSE.—Market firm. Spot, about 9s. to 9s. 6d. per lb. No shipment offers.

CASSIA.—A fair inquiry continues, but spot stocks are now limited. Spot, steady at about 5s. 6d. to 6s. per lb. for leads, with drums at lower figures. Shipment offers not available.

CITRONELLA.—Rather more interest is being shown in the Ceylon material. Spot is quoted at about 2s. 4d. to 2s. 6d. per lb. for drums; small quantities would be worth up to about 3s. per lb.; shipment, drums, about 1s. 11d. per lb., c.i.f. Java, spot, about 2s. 6d. to 3s. per lb.; shipment, about 1s. 9d. per lb., c.i.f.

CLOVE.—Moderate inquiry at steady prices. Madagascar, in drums, about 5s. 6d. upwards per lb., if available. English distilled, firm at about 7s. to 7s. 3d. per lb., according to quantity.

EUCALYPTUS.—Quotations for spot supplies of 70 to 75 per cent. oil range between 4s. and 4s. 3d. per lb., according to holder; shipment continues nominal at about 3s. per lb., c.i.f.

GERANIUM.—Very firm. Bourbon, on spot, nominal at about 17s. 6d. per lb. for good-quality oil. Algerian, on spot, would be worth about 16s. per lb.; no shipment offers.

GRAPEFRUIT.—Firm. Genuine Californian oil is now quoted at about 12s. per lb.

LEMON.—Sicilian hand-pressed oil is now nominal, and the spot price would be a matter for negotiation. Californian oil, distilled, regular quality, is quoted dearer at 9s. 6d. per lb., ex wharf. No shipment prices for cold-pressed are available.

LEMONGRASS.—Little activity is shown in this market. Spot, about 4s. 6d. per lb.; shipment, steady at about 3s. 9d. per lb., c.i.f.

LIME.—Market very firm. Genuine West Indian, spot, about 30s. per lb.; other qualities at lower prices.

LINSEED.—The controlled price for large bulk quantities of crude, naked ex works, was recently reduced to £46 per ton as a result of a fall in the price of seed. Distributors' prices for ordinary quantities of crude or boiled, packed and carriage paid, would be at higher figures.

OLIVE.—The Ministry of Food controlled price paid by importers for large bulk quantities in 50-gall. drums is unchanged. Distributors' prices for a few gallons, packed in gallon tins, carriage paid, now range from 12s. 6d. to 13s. 6d. per gall., according to quantity.

ORANGE.—More inquiry is reported. French Guinea oil is valued at about 5s. to 5s. 6d. per lb., with shipment at about 3s. 9d. per lb., c.i.f. Californian oil is quoted in sterling at 4s. 10d. per lb., in small drums, ex store, duty paid, limited supplies only being available.

OTTO OF ROSE.—Bulgarian, about £80 per kilo; Anatolian, about £60 per kilo.

PALMAROSA.—Market continues firm. Spot, about 11s. 6d. to 12s. per lb., ex store; shipment, firm at about 10s. 6d. per lb., c.i.f.

PATCHOULI.—About 40s. per lb. is reported paid for genuine Singapore oil on spot. Seychelles oil is in limited supply at about 27s. 6d. to 30s. per lb., nominal. No shipment offers.

PEPPERMINT.—Little business has been done in the Japanese product, and spot stocks are firmly held for about 9s. 4½d. to 9s. 6d. per lb. Japanese shippers are quoting at about 8s. 6d. to 9s. 6d. per lb., c.i.f., for July–August shipment. Chinese firm and not available under about 6s. 3d. to 6s. 6d. per lb.; shipment, July–August, about 6s. to 6s. 3d. per lb., c.i.f., with possible re-sellers of May–June at 6s. per lb. American natural oil remains steady. Quoted at 14s. 3d., in drums, and 14s. 6d., in tins in cases, c.i.f. Spot, about 16s. per lb., ex store.

PETITGRAIN.—Spot is valued at about 9s. 6d. to 10s. per lb., according to grade and packing.

ROSEMARY.—Spanish is quoted at about 3s. 6d. to 4s. per lb., ex store. Tunis, if available, about 3s. 9d. per lb.

SANDALWOOD.—Genuine East Indian Mysore, in one-case lots, 19s. per lb. East Indian, produced outside the province of Mysore, 18s. per lb. for bulk quantities. English-made West Indian, 15s. per lb. Australian, one-case lots, 16s., and five-cwt. lots, 15s. 6d. per lb.

SPIKE.—Market firm. Good-quality Spanish oil would be at about 8s. 6d. or more per lb., ex store.

TURPENTINE (AMERICAN).—Values are steady: London, 54s. 9d. per cwt., tax paid, in barrels, ex wharf; Liverpool, 61s., in barrels, ex store.

TURTLE.—Empire oil is quoted as follows: Refined hydrogenated green, in one-gallon tins, 45s. per gallon; filtered crude green, 2s. to 2s. 6d. per lb., according to package.

VETIVERT.—Bourbon, spot, about 30s. per lb. Java, about 25s. per lb., ex store.

WORMSEED.—Steady and unchanged. Spot, about 24s. 6d. per lb.; shipment, about 23s. per lb., c.i.f.

COMMERCIAL NOTES

Imports into Peru.—In 1939 Peru imported pharmaceutical and chemical products to the value of 20,460,000 soles, compared with 16,046,000 soles in the previous year.

Japanese Drug and Chemical Exports.—In 1939 Japan exported drugs, chemicals, and allied products to the value of 108,000,000 yen, compared with 74,000,000 yen in 1938.

U.S.A. Carnauba Wax Imports.—During 1939 the United States imported 16,358,500 lb. of carnauba wax, compared with 13,915,700 lb. in 1938 and 12,377,000 in 1937.

Saffron Production in Greece.—About 300 acres were under crocus cultivation in Western Macedonia during 1939, compared with about 200 acres in the preceding year. The yield of red saffron from these acreages is estimated to have increased from 1,000 to 1,100 kilos in the year.

Bulgarian Rose Oil Production.—During 1939 2,800 kilos of rose oil were produced in Bulgaria, compared with 1,690 during the preceding year.

U.S.A. Cod Liver Oil Imports.—The following table shows imports of cod liver oil into the United States during the years 1935–1939 (figures in gallons):—

Country of Origin	1935	1936	1937	1938	1939
Denmark	10,107	45,403	27,792	51,456	90,065
France	23	43	55,481	400	11,179
Germany	125,102	62,164	131,085	930,154	1,180,196
Iceland	1,090,627	1,085,168	1,037,410	1,275,417	1,701,025
Norway	2,497,494	2,821,187	2,857,592	1,547,245	2,359,580
United Kingdom	609,772	1,357,775	1,432,025	630,946	926,218
Canada	54,168	55,232	72,310	154,095	143,832
Newfoundland and Labrador	168,389	146,722	89,480	216,790	107,063
Miquelon and St. Pierre	6,486	3,823	760	—	—
Japan	44,825	211,802	212,029	411,434	139,366
Holland	—	—	—	—	11,750
Poland and Danzig	—	180	—	—	—
Italy	—	75	—	—	—
Total	4,607,093	5,789,574	5,915,964	5,218,537	6,670,274

CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

Deficient Quinine Tablets

SIR,—On page 426 of THE CHEMIST AND DRUGGIST, June 15, we read of a report on quinine tablets purchased for the South African Defence Department. Although this report may be a revelation to some of your readers, it is apparent to us, as our experience tends to show, that quinine tablets are sold at prices with which no honest manufacturer could hope to compete. Apart from the fact that something is radically wrong in this case, it should be realised that these occurrences in the past have done much to lose export trade for this country. In view of the foregoing, it is to be regretted that the identity of the manufacturers was not disclosed.

Yours faithfully,

S. F. BELTHLE, Director,
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Theory and Practice

SIR,—The chairman of the British Pharmaceutical Conference (C. & D., June 15, p. 432) raised the question how a knowledge of physiology in relation to food values could be turned to practical account by the pharmacist. The same question might be put with regard to other subjects which most chemists have no opportunity to use for practical purposes when they are engaged in retail business. This inadequate position of the chemist can be illustrated by a reference to the statement in the address to the effect that it is a reasonable proposition that if a person is compelled by the State to pass an examination in a subject of first-class importance, that person should be provided with the opportunity of specifically serving the community. The Pharmacy and Poisons Act forbids a registered pharmacist from selling drugs in unregistered premises without qualified supervision, yet it permits any unqualified person to keep a shop for the sale of all kinds of drugs with the exception of scheduled poisons. The pharmacist may have the right, I can hardly call it the privilege, of selling poisons, but the sales are hedged round with restrictions, and even unintentional breaches might entail heavy penalties if these were imposed in full. Until the State recognises that the pharmacist is entitled to some corresponding return for fulfilling the obligation placed on him to pass the statutory examinations, I am afraid we shall see no satisfactory improvement in the status of the pharmacist. We have been told a good many times that a demand for the control of the sale of drugs would be equal to asking for a monopoly, but is this not to a large extent foreshadowed by imposing a statutory course of training and examinations, which have to be passed before any person can be registered as a pharmacist?

Yours faithfully,

SCRUTATOR (15/6).

MISCELLANEOUS INQUIRIES

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them

Herbal Smoking Mixtures.—H. W. H. (28/5).—The following is a representative formula for this type of preparation:—

Grindelia robusta	24
Jaborandi leaves	24
Eucalyptus leaves	12
Cubeb	12
Stramonium leaves	45
Potassium nitrate	36
Cascarilla bark	3

The ingredients should be reduced to a uniform size before adding the saltpetre. It is customary in mixtures of this nature to dissolve the potassium nitrate in a convenient amount of water and to spray it on the herbs, which are allowed to dry before packing.

Astringent Foot Deodorant.—W. T. L. (22/5).—A liquid deodorant for applying to the feet can be made as follows:—

Formaldehyde	0.5
Chlorothymol	0.2
Salicylic acid	2.0
Glycerin	10.0
Alcohol	33.0
Water	54.05
Perfume	0.25

Dissolve the salicylic acid in the alcohol and add the perfume oil and formaldehyde. Dissolve the chlorothymol in alcohol, add the glycerin. Mix both solutions with the remainder of the water and filter.

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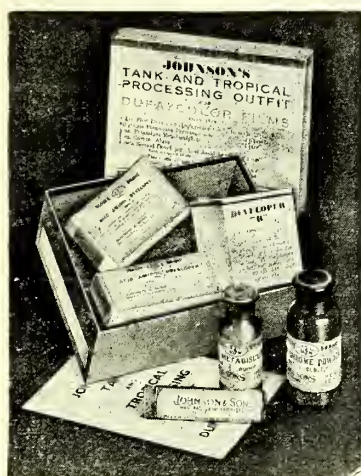
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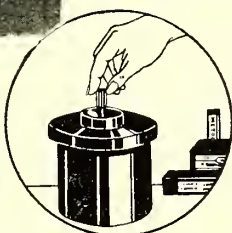
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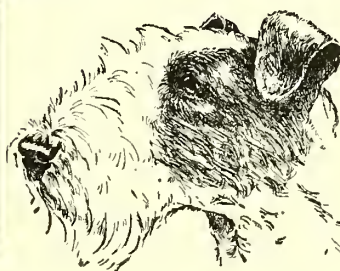
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The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

JUNE 22
1940

28 ESSEX STREET, LONDON, W.C. 2

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PLEASE MARK YOUR ENVELOPE "SMALL ADVERTISEMENT" AND ADDRESS TO

The Chemist & Druggist, 28 Essex St., Strand, London, W.C.2. Tele: Central 6565 (10 lines) Grams: "Chemicus" Estrand, London

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FOR Sale by private treaty, old-established Chemist's Business; busy main road, London, N.; rent £70 per annum, including shop and house; vendor retiring; turnover approx. £800; stock and fixtures £350, worth more; total purchase price required, £400; banker's or substantial reference must accompany inquiries. 281/4, Office of this Paper.

FOR SALE

CASH REGISTER, National type, prints all details, shows total inside. Bargain. S. Janson, 68 Westbourne Terrace, Paddington, W.2.

LUMINOUS Calcium and Zinc Sulphide Powder of high quality (70 and 12 lb. respectively), also $\frac{1}{2}$, 1, and 2-lb. lever lid tins for disposal. Aerosan, Ltd., 32 Chiltern Street, London, W.1.

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THE HAMPDEN RESIDENTIAL CLUB

A COMFORTABLE club for Gentlemen. Polygon Road, N.W.1, between King's Cross and Euston. 300 Bedrooms, 16s. 6d. to 24s. p.w., including bath and personal services. All meals à la carte. Large Club-rooms, Library, Billiards-room, Reading-room, and Study for students. Prospectus from Secretary. Euston 2244.

EXCHANGE COLUMN

WANTED

OPTOMETER, modern, recent, for cash. Send particulars, price, etc., 287/5, Office of this Paper.

VELOX Fifteen Glazing Machine. Cash. 287/5, Office of this Paper.

FOR DISPOSAL

SOLID Mahogany adaptable Fixture, mirrored, plate doors. Counter, front cases, perfume cases on top, as new. Particulars and measurements. Stuart, 467 Union Street, Aberdeen.

AGENCIES

ENTERPRISING firm of Manufacturing Chemists desire to contact wholesale houses or other organisations for marketing of lines throughout the country. Apply 366/433, Office of this Paper.

MANUFACTURING Chemists with connexion throughout country desire to take up additional lines. Apply 276/7, Office of this Paper.

SITUATIONS OPEN

RETAIL (HOME)

BRIGHTON.—Young Lady Dispenser required; previous retail experience an advantage; some counter duty. Apply by letter to Retail Staff Manager, Taylors The Chemists, 70 Vauxhall Bridge Road, London, S.W.1.

ASSISTANT PHARMACISTS (two) required by Middlesex County Council for (1) Chase Farm, Emergency Hospital, The Ridgway, Enfield, Middlesex. (2) Staines Emergency Hospital, London Road, Ashford, Middlesex. Salary £200 p.a., rising to £250 p.a. Must hold one of qualifications of Pharmaceutical Society. Whole-time duties under supervision of Medical Superintendent and Pharmacist. Unestablished, subject to medical examination and one month's notice. Application to Medical Superintendent, L.I., of either hospital. No application forms provided. Relationship to any member or officer of Council to be disclosed. Copies of not more than three recent testimonials. Canvassing directly or indirectly will disqualify. Closing date, June 29.

JUNIOR Assistant wanted for comfortable and well-paid post. Apply 366/437, Office of this Paper.

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LADY Assistant required for good-class pharmacy. Please give full details of age, experience, salary required, and date available to I. Henneman, 84 High Street, Sutton, Surrey (neutral area).

LADY Pharmacist for permanent position. Thorough retail experience essential as well as dispensing. State age, height and salary required. Request interview not received three days respectfully declined. No stamped envelope.—L. Matthews, 722 High Road, Leytonstone.

PHARMACIST required. Salary £225 rising by annual increments of £12 10s. to £275 per annum. Apply as soon as possible to Medical Superintendent, Southend Municipal Hospital, Rochford, Essex.

PHARMACY. Female Assistant required. Must have had pharmaceutical and general shop experience. Widows and single persons only considered. Apply in writing, stating age and experience, to the Staff Manager, Royal Arsenal Co-operative Society, Ltd., 113 Powis Street, Woolwich, S.E.18. Endorse envelope "Pharmacy." Note: Canvassers of members of the General Committee or officials will disqualify.

UNQUALIFIED Assistant (either sex) for duration. Must be careful dispenser, good window dresser, and have initiative. Full particulars to Hamer, Chemist, 172 Upper Elmers End Road, Beckenham, Kent.

WANTED, Unqualified Male Assistant; relief July and August; Winter hours of business; state counter experience with photographic knowledge, age, height, salary, with reference; young, energetic man preferred; enclose photograph if possible. Frank Purcell, Chemist, Strand Street, Douglas, I.O.M.

WANTED, Young Pharmacist; smart appearance. Either sex. Apply Littlewoods Stores, Ltd., Piccadilly, Manchester, 1.

VACANCIES FOR LOCUMS

WANTED for fortnight commencing July 8, Unqualified Lady Assistant. Apply, giving references, salary required, etc., G. E. Whineray, 78 Essex Road, N.1.

WHOLESALE

AGE 45-48, man, experienced operation Chemical Plant Boiling Pans, etc., required North-West London. Particulars age, experience, wages required, to 366/430, Office of this Paper.

EXPERIENCED Representative required for Northumberland and Durham by high-class Manufacturing Chemists. Knowledge of biological products preferred but not essential. Must reside in territory. Write, stating age and experience, to "N.L.," Charles Barker & Sons, Ltd., 31 Budge Row, E.C.4.

INVOICE Clerk required for London Wholesale Druggists. Write, stating experience, etc., 365/381, Office of this Paper.

LEADING Manufacturers of Nationally Advertised Products require the temporary services of a First Class Salesman (40/50 years of age) with a sound connexion amongst Chemists throughout the Midlands. Reply (in confidence) giving full particulars of experience, age, salary required, and when available, to (Sales Manager), 366/434, Office of this Paper.

LONDON Manufacturing Chemists & Druggists require a young Qualified Assistant for indoor warehouse work. Write giving age and experience, and wages required to 366/435, Office of this Paper.

TABLET Maker and Sugar Coater wanted, for London Wholesale Druggists. 365/382, Office of this Paper.

WANTED—Assistant in the analytical laboratory. One with some previous experience in the examination of galenicals preferred. Apply C. R. Harker, Stagg and Morgan, Ltd., Emmott Street, Mile End, E.1.

WAREHOUSEMAN wanted for small private warehouse of company of retail chemists. Must have good knowledge of all usual patents, photographic sundries and toilet preparations. State salary required, and experience. W. H. Green, 23 Much Park Street, Coventry.

WELL-KNOWN northern manufacturing chemists require Representative to replace enlisted man for old-established connexion in Yorkshire and the East Coast. Applicant must be exempt military service. Apply, stating age, experience and salary, to 282/3, Office of this Paper.

SITUATIONS WANTED

RETAIL (HOME)

ASSISTANT, over 17 years' varied experience; 5 years' apprenticeship (indentured). West End, country and watering-place. Dispensing, photo, veterinary. Registered Dentist (prescribed exam.). Over military age, seeks position of trust. "D.," 42 Preston Road, Brighton.

ASSISTANT, unqualified (46), desires change; present situation 11 years. Capable all branches and energetic; accustomed to taking charge, also buying; seeking position where energy would receive consideration. Offers invited, in first instance, to 287/7, Office of this Paper.

PHARMACIST (29) desires Managership or locumcy. Excellent references; good all-round experience; N. London preferred; free June 24. 284/2, Office of this Paper.

SECRETARY Dispenser (qualified Hall), experienced, requires a post with a firm of doctors or hospital. Free now. 366/426, Office of this Paper.

UNQUALIFIED, seeks situation, dispensing, counter, photographic, toilets, excellent references.—Moses, 66 Albert Street, Camden Town, N.W.1.

LOCUMS SEEKING ENGAGEMENTS

EXPERIENCED Pharmacist, elderly; knowledge of all departments, looking for management or locum; free July 1. "A.," 281 Hackney Road, E.2.

LOCUM or Part-time Management, Woman Pharmacist; all-round experience hospital, retail and doctor's dispensing. Excellent testimonials and highest references. D. A. B., 7 Alba Gardens, N.W.11.

LOCUM, qualified, excellent references and experience; free July 22 to August 10. London only. P. C. B., 342/19, Office of this Paper.

WHOLESALE

ADVERTISER, General Sales Manager for many years, leading sundries house; seeks executive position. Capable organiser, wide experience in control of staff and office management. Vast connexion with wholesale and retail buyers. Highest credentials. 366/436, Office of this Paper.

ADVERTISER (34), sound Retail, Wholesale experience, seeks employment Maidstone or near. Wholesale preferred but not essential. "Rhei," The Poplars, London Road, West Malling.

ARE you needing a Temporary Representative for London area; connexion over 3000. Car driver; disengaged. Salary basis. Successful. P. C. B., 342/21, Office of this Paper.

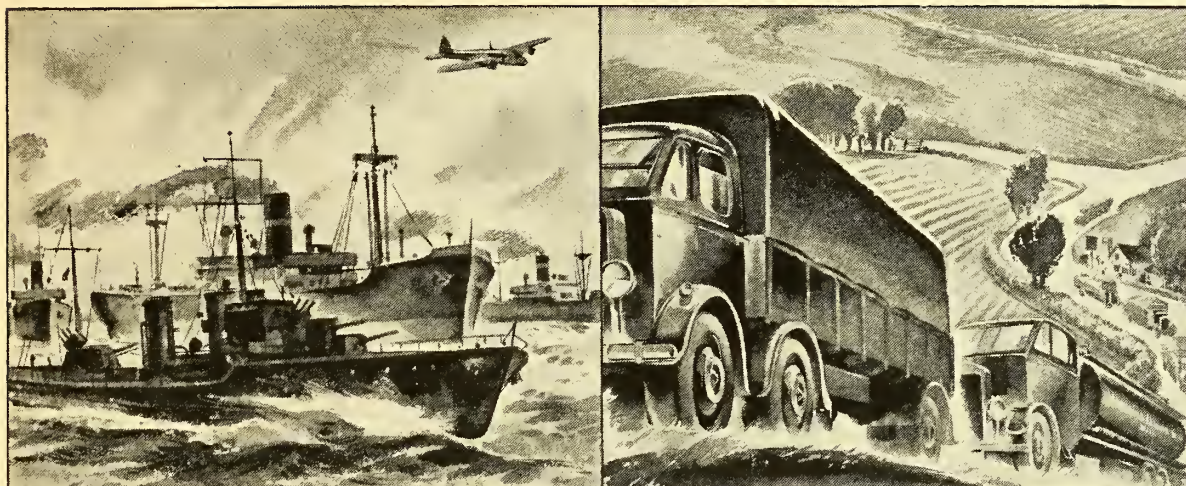
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FREE SHORTLY.—Executive with thorough knowledge of world's markets in Medicinal Yeast Powders, Tablets, and Extracts, together with all pharmaceutical tablets, pills, etc., seeks Executive position. Can command immediate substantial turnover in the above lines. Long-standing Manufacturing experience in all phases and processes. Capital available. 277/9, Office of this Paper.

REPRESENTATIVE, sound Chemists' Connexion, home counties; over military age; free to consider representation of good House on commission and expenses basis. 286/6, Office of this Paper.

MISCELLANEOUS

£?—**COMPLETE CHEMIST FITTINGS** at any price you wish to pay. We have erected in our Showrooms a Complete Chemist's Shop with Metal Shop Front. Window Backs, Correct Window Lighting. Signs and Modern Interior Fittings. Apply for Lists, D. MATTHEWS & SON, LTD., "The Liverpool Shop Fitters," 14 and 16 Manchester Street, Liverpool. Est. 1848.



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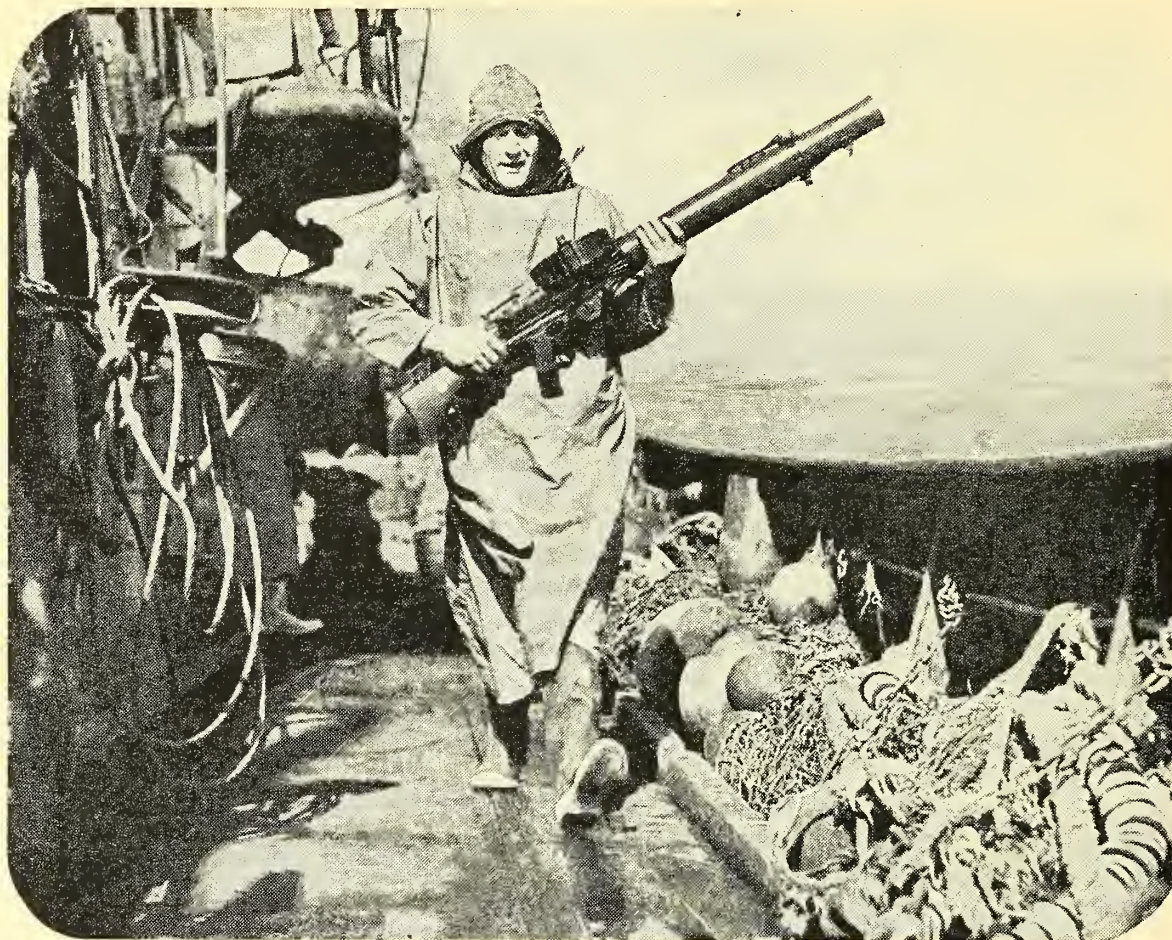
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